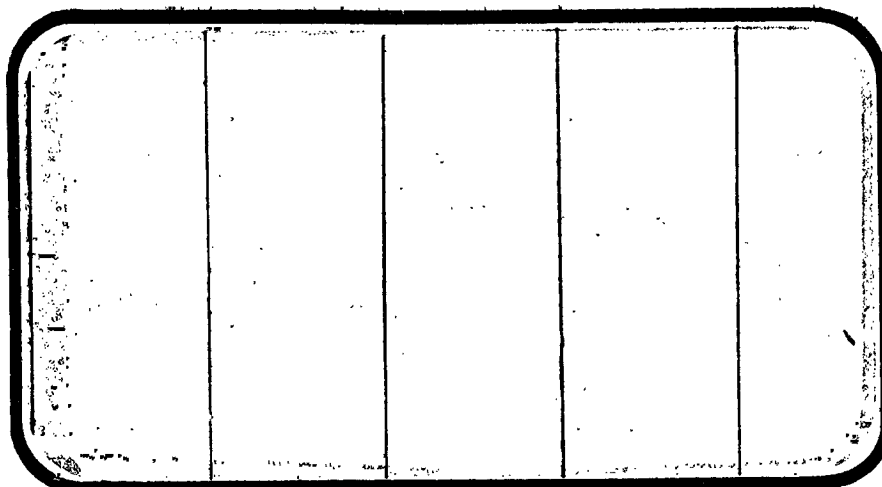


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NASA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



(NASA-CR-147619) RESULTS OF AN
INVESTIGATION TO DETERMINE LOCAL FLOW
CHARACTERISTICS AT THE AIR DATA PROBE
LOCATIONS USING AN 0.030-SCALE MODEL (45-0)
OF THE SPACE SHUTTLE VEHICLE ORBITER

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION



CHRYSLER
CORPORATION

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VOLUME 2 OF 2

RESULTS OF AN INVESTIGATION TO DETERMINE
LOCAL FLOW CHARACTERISTICS AT THE AIR DATA
PROBE LOCATIONS USING AN 0.030-SCALE MODEL (45-0)
OF THE SPACE SHUTTLE VEHICLE ORBITER CONFIGURATION
140A/B (MODIFIED) IN THE NASA AMES RESEARCH CENTER
UNITARY PLAN WIND TUNNEL (0A161, A, B, C)

by

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Prepared under NASA Contract Number NAS9-13247

by

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Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: 11-094, 97-094, 87-094
NASA Series Number: OA161 A,B,C
Model Number: 45-0
Test Dates: March 6 through March 31, 1976
Occupancy Hours: 212

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140/B (MODIFIED) IN THE NASA AMES RESEARCH CENTER
UNITARY PLAN WIND TUNNEL (0A161, A, B, C)

by

M. E. Nichols, Rockwell International Space Division

ABSTRACT

This report documents the results of wind tunnel test 0A161 of a 0.030-scale model 45-0 of the Configuration 140A/B (Modified) Space Shuttle Vehicle Orbiter in the NASA Ames Research Center Unitary Plan Wind Tunnel facilities, conducted March 6, 1975 to March 31, 1975.

The purpose of this test was to determine local total and static pressure environments for the air data probe locations and relative effectiveness of alternate flight-test probe configurations. Testing was done in the Mach number range from 0.30 to 3.5. Angle of attack was varied from -8 to 25 degrees while sideslip varied between -8 and 8 degrees.

This report contains one volume of plotted data figures and a second volume of tabulated data.

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NOMENCLATURE General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_B}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_B - p_\infty)/qS$
C_{A_F}	CAF	forebody axial force coefficient, $C_A - C_{A_B}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS \bar{c}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CLL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_F}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS \bar{c}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CLL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_F	L/DF	lift to forebody drag ratio; C_L/C_{D_F}

NOMENCLATURE Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_{p_i}	CPI	pressure coefficient at tap i
$C_{p_{s_j}}$	CPSJ	static pressure coefficient at tap j, $(P_{s_j} - P_{s_\infty})/q_\infty$
$C_{p_{T_i}}$	CPTI	total pressure coefficient at tap i, $(P_{T_i} - P_{s_\infty})/q_\infty$
M_{i_j}	MIJ	local Mach number obtained using Raleigh-pitot equation with (P_{s_j}/P_{T_i})
P_{s_j}	PSJ	local static pressure at tap j, psfa
P_{s_∞}	P	freestream static pressure, psfa
P_{T_i}	PTI	local total pressure at tap i, psfa
P_{T_∞}	PT	freestream total pressure, psfa
P_{T_i}/P_{T_∞}	PTI/PT	ratio of local to freestream total pressures at tap i
P_{s_j}/P_{s_∞}	PSJ/P	ratio of local to freestream static pressures at tap j
P_{T_i}/q_c	PTI/QC	ratio of local total pressure increment from freestream static to freestream compressible dynamic pressure, $(P_{T_i} - P_{s_\infty})/q_c$
q_∞	Q	freestream (as measured) dynamic pressure, psfa
q_c	QCOMP	freestream compressible dynamic pressure, psfa

$$P_{T_x} = P_{s_\infty}$$

where $P_{T_x} = PT$ for $M \leq 1.0$

$$P_{T_x} = P_{s_\infty} \left[\frac{6}{5} M^2 \right]^{7/2} \left[\frac{\gamma}{7M^2 - 1} \right]^{5/2} \text{ for } M > 1.0$$

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
q_{ij}	QIJ	local compressible dynamic pressure, $(P_{Ti} - P_{sj})$, psfa
q_{ij}/q_c	QIJ/QC	ratio of local to freestream compressible dynamic pressure
$(\Delta P_T/q)_{ij}$	DPTQIJ	local to freestream total pressure increment ratioed to local compressible dynamic pressure, $(P_{Ti} - P_{T\infty})/(P_{Ti} - P_{sj})$, total pressure decrement
$(\Delta P_s/q)_{ij}$	DPQIJ	local static pressure increment ratioed to local compressible dynamic pressure, $(P_{sj} - P_{s\infty})/(P_{Ti} - P_{sj})$, static pressure decrement
δ_a	AILRON	aileron deflection angle, degrees
δ_e	ELEVON	elevon deflection angle, degrees
δ_f	BDFLAP	bodyflap surface deflection angle, positive deflection trailing edge down, degrees

Note: All calculations for rakes on datasets requiring P_{sj} ;
 P_{sj} was taken from a rake off dataset.

SUBSCRIPTS

i	I	local total pressure at the ith tap
j	J	local static pressure at the jth tap

RAKES ON CONFIGURATION

J	Static Pressure Tap Locations	Model Station X_0
1	Fuselage Flush Left Side	8.100
2	Fuselage Flush Right Side	8.100
3	Fuselage Flush Left Side	12.900
4	Fuselage Flush Right Side	12.900

NOMENCLATURE (Concluded)

RAKES ON CONFIGURATION (Concluded)

I	Total Pressure Tap Locations	Model Station X_0
1	Left Rake Outboard	12.846
2	Left Rake Middle	12.873
3	Left Rake Inboard	12.900
4	Right Rake Inboard	12.900
5	Right Rake Middle	12.873
6	Right Rake Outboard	12.846

PROBES ON CONFIGURATION

J	Static Pressure Locations	Model Station X_0
1 \Rightarrow 4	Same as the rakes on Configuration	
5	Nose Pitot/Static Probe	0.809
6	Left Wing Pitot/Static Probe	35.025
1	Total Pressure Tap Locations	
6	Left Wing Pitot/Static Probe	35.025
7	Nose Pitot/Static Probe	0.809

Note: Left wing pitot/static probe was located along W L 9.160 and
B L 14.050

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CONFIGURATIONS INVESTIGATED

The 0.030-scale 45-0 model employed in this test was a representation of the Configuration 140A/B (modified) Space Shuttle Vehicle Orbiter. It was instrumented for measurement of static and total pressures in the region of the proposed Air Data Subsystem probes on the Orbiter forebody, and was provided with alternate nose and left wing-tip flight test probe installations. A wing-off configuration was also tested with and without the total-pressure forebody rakes at transonic conditions. During certain runs, tufts were attached on the right-hand forebody region for flow-visualization studies. Elevon and aileron deflections were variable, while the rudder and speedbrake were maintained at 0 deg. settings and the body-flap at -7.17 deg. See Table II.

Model nomenclature used for this test was as follows:

where: Orb = B₂₆ C₉ E₄₃ F₈ M₁₆ N₂₄ R₅ V₈ W₁₁₆ N₂₈

Component

B ₂₆	Orbiter fuselage per Rockwell International lines: VL70000140A/B (model drawing SS-A01360)
C ₉	Orbiter canopy per Rockwell International lines: VL70000140A/B (model drawing SS-A01360)
E ₄₃	Orbiter full-span, unswept-hingeline 6"-gapped elevons per Rockwell International lines: VL70-000200 (model drawings SS-A1360)
F ₈	Orbiter body flap per Rockwell International lines: VL70000200 (model drawing SS-A1360)
M ₁₆	Orbiter OMS pods per Rockwell International lines: VL700002030A, VL70-008401 (model drawing SS-A1360)
N ₂₄	Orbiter main propulsion system (MPS) nozzles: VL70000140A, VL70-005034 (model drawing SS-A01360)

CONFIGURATIONS INVESTIGATED (Concluded)

N₂₈ .. Orbiter OMS nozzles: VL70-000140A (model drawing SS-A01360)

R₅ Orbiter rudder per Rockwell International lines: VL70000146A
(model drawing SS-A01360)

V₈ Orbiter vertical tail per Rockwell lines: VL70-000146A (model
drawing SS-A01360)

W₁₁₆ Orbiter wing per Rockwell International lines: VL70-000200
(model drawing SS-A01360)

See Table III for detailed information on model components.

TEST FACILITY DESCRIPTION

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6 .

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the stream-wise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Six-component balance data were reduced, using Ames standard data reduction techniques, to body-axis coefficient form. Angles of attack and sideslip were corrected for balance and sting deflections. Moments were reduced about the Orbiter moment reference center.

No base pressure corrections were applied to the data; however, two base pressure taps were monitored for future reference. Tufts and Schlieren photography were employed to determine local flow and shock-wave patterns, particularly in the transonic regime.

The following reference dimensions and constants were used to reduce the data to coefficient form.

Reference Dimensions and Constants

<u>Symbol</u>	<u>Definition</u>	<u>Model Scale</u>	<u>Full Scale</u>
S	Wing reference area, ft ²	2.421	2690.0
\bar{c}	Wing reference MAC, in	14.244	474.8
b	Wing reference span, in	28.100	936.68
MRP	Moment reference point		
	Fuselage station	32.300	1076.88
	Water plane	11.250	375

Probe data were reduced to provide local Mach number, various pressure ratios, and coefficients as defined in the nomenclature section. Mach numbers (M_{ij}) were calculated using the Rayleigh Pitot equation with the appropriate static (P_{sj}) and total (P_{Tj}) pressures. Calculations for data sets containing data obtained with the rake installed utilize P_{sj} from an equivalent data set containing data obtained without the rake installed.

DISCUSSION OF DATA AND RESULTS

Force data were good in nearly all cases. A roll gauge failure between test segments B and C required recalibration measures in the reduction program, but no data were lost. Axial force data were possibly the least accurate during this test due to the interaction effects of the metric-to-nonmetric instrumentation leads running from the model to the supporting sting. However, axial-force corrections to the model angle-of-attack and/or angle-of-sideslip readings were considered insignificant.

Model fidelity to configuration lines was questioned as a result of asymmetrical pressure data in 0° sideslip cases with symmetrical deflection settings. Model dimensional checks will be carried out as necessary to determine compensations to test data.

REFERENCE

SD75-SH-0052, "Pretest Information for Test OA161 A, B and C of the 0.030-Scale Model 45-O Space Shuttle Orbiter in the Ames Research Center Unitary Plan Wind Tunnels for Determining Local Flow Characteristics at the Air Data Probe Location", By D. E. Thornton and M. E. Nichols, February 14, 1975.

TABLE I

TEST : 0A161 A.B. C

DATE : March, 1975

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.30	$4.25 \times 10^6/\text{ft}$	1.69	116
0.60		3.57	
0.70		3.94	
0.80		4.44	
0.85		4.76	
0.90		4.90	
0.95		5.04	
0.98		5.22	
1.05		5.45	
1.10		5.55	
1.15		5.60	
1.20		5.68	
1.30		5.93	
1.40	↓	6.10	↓
1.55	$3.00 \times 10^6/\text{ft}$	4.47	85
1.75	↓	4.62	↓

BALANCE UTILIZED: MK XX 2.5"

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>3000 lbs</u>	_____	_____
SF	<u>1500 lbs</u>	_____	_____
AF	<u>600 lbs</u>	_____	_____
PM	<u>27,000 in-lbs</u>	_____	_____
RM	<u>4000 in-lbs</u>	_____	_____
YM	<u>10,500 in-lbs</u>	_____	_____

COMMENTS:

TABLE I. (Cont'd)

[illegible]

TABLE II.

TEST: 0A161 A,B,C			DATA SET/RUN NUMBER COLLATION SUMMARY														DATE: 05-7-77										
DATA SET IDENTIFIER	CONFIGURATION	SCHD.	PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS										
			A	B	DE	DA	DB	0.3	0.5	0.6	0.7	0.8	0.85	0.9	0.95	0.98	1.05										
RETOG1	ORBITER-WING+RAKES	A	0	-	-	-6.5				2	3	4		5		6											
02	ORBITER-WING	N/A	0	-	-	-6.5				282						283											
03	ORBITER+RAKES	C	5	0	0	-6.5																					
04		C	2							21				18*													
05		C	0							22*				19*													
06		C	2							23*				20*													
07		F	5	0	0	-6.5				99				111		120	121	130									
08	ORBITER+TUFTS	F	5	0	0	-6.5				98				112		119	122	129									
09		F	2							97				113		118	123	128									
10		G	0							96				114		117	124	127									
11		F	2							95				115		116	125	126									
12		F	5	0	0	-6.5				79	34			54		55	64	65									
13	ORBITER	C	5	0	0	-6.5				30	35			53		56	63	66									
14		C	2							31	36			52		57	62	67									
15		C	0							32*	37			50		58	61	68									
16		C	2							28	38			48		59	60	69									
17		C	5																								

TABLE II. - Continued.

TEST: CASE A, B, C										DATE: POST TEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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TABLE II. - Continued

TEST: 03' 6" 1 3, C										DATE: POST TEST										
DATA SET RUN NUMBER COLLATION SUMMARY																				
DATA SET CENTER	CONFIGURATION	SCHED. PARAMETERS/VALUES				NO. OF RUNS	WACH N. NUMBERS FOR ALTER. RATE INTERFERENT. AVAILABLE										TEST RUN NUMBERS			
		A	B	6C	6G		0.3	0.5C	0.6	0.7	0.8	0.55	0.5	0.55	0.58	1.05				
19	CRS. 10.8	H	5	0	2.5	6.5									161					
20		H	5	0											157					
21		H	5	0											158					
22		H	5	0											157					
23		H	5	0	5	6.5									156					
24		H	5	0											201			191		
25		H	5	0											202			192		
26		H	5	0											203			193		
27		H	5	0	7.5	6.5								204			194			
28		H	5	0										210			195			
29		H	5	0										209						
30		J	0											208						
31		H	5	0										207						
32		H	5	0										206						
									</											

TABLE II. - Continued

TEST: 0A161 A, B, C										DATE: POST TEST									
DATA SET/RUN NUMBER COLLATION SUMMARY																			
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)												
		α	β	ϵ	δ		1.1	1.15	1.2	1.3	1.4	1.55	1.75	2.0	2.25	2.5			
RE7018	ORBITER	10	5	0	2.5	-6.5													
19		10	2																
20		10	0																
21		10	2																
22		10	5																
23		10	-5	0	5	-6.5	190												
24		10	-2				189												
25		10	0				188*												
26		10	2				187												
27		10	5				186												
28		10	-5	0	7.5	-6.5													
29		10	-2																
30		10	0																
31		10	2																
32		10	5																
TEST RUN NUMBERS																			
7	13	19	25	31	37	43	49	55	61	67	75	76							
													COEFFICIENTS						
													IDVAR(11) IDVAR(21) NDV						
A OR B													X) K = 0, 2, 4, 8, 10, 12, 14, 16, 20, 0						
SCHEDULES													X) L = 0, 2, 4, 6, 8, 10, 12, 14, 16, 20, 24, 0						
													X) M = 0, 4, 6, 8, 10, 12, 14, 16, 20, 0						

TABLE II. - Continued

TEST: PA16, A, 3, C										DATE: POST TEST																							
DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: POST TEST																							
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS															
		A	B	SE	SA	SOE		3.0	3.5																								
09018	ORBITER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
17																																	
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32																																	

α OR β

SCHEDULES

α) H = 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26

α) I = 0, 4, 8, 10, 12, 14, 16, 20, 24

COEFFICIENTS

α) K = 0, 2, 4, 6, 8, 10, 12, 14, 16, 20, 24

α) L = 0, 2, 4, 6, 8, 10, 12, 14, 16, 20, 24, 26

NDV

TABLE II. - Continued

TEST: 09161A,B,C										DATE: POST 1957																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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		A	B	SE	SA	SAF			0.3	0.56	0.6	0.7	0.8	0.85	0.9	0.95	0.98	1.05																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
RET033	ORBITER	I	-5	0	10	-6.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

TABLE II. - Continued

[illegible]

TABLE II. - Continued

TEST: QA 161 A,B,C										DATE: POST TEST									
DATA SET/RUN NUMBER COLLATION SUMMARY																			
DATA SET IDENTIFIER	CONF. CURATION	SCHED.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLES)		TEST RUN NUMBERS									
		A	B	SE	SA	SoF		3.0	3.5	37	43	49	55	61	67	75	76		
RE7033	CRBTIR	I	5	0	10	-6.5													
34		I	2																
35		J	0																
36		I	2																
37		I	5																
38	CRBTIR + PROBES	C	8	0	0	-6.5													
39		C	5																
40		C	2																
41		C	0																
42		C	2																
43		C	5																
44		C	8																
45		C	5	15	0	-6.5													
46		C	2																
47		C	0																
48		C	2																
49		C	5																
		COEFFICIENTS																	
		SCHEDULES																	
		α C = 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 0																	
		α J = 0, 4, 8, 10, 12, 14, 16, 20, 0																	
		α J = 0, 4, 6, 8, 10, 12, 14, 16, 20, 24, 0																	

TABLE II. - Continued

TEST: CA161 A,B,C										DATE: POST TEST																			
DATA SET/RUN NUMBER COLLATION SUMMARY										TEST RUN NUMBERS																			
DATA SET IDENTIFIER	CONFIGURATION	SCHD.	PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																					
			α	β	δ	ε		0.3	0.58	0.6	0.7	0.8	0.85	0.9	0.95	0.98	1.05												
RET-050	ORBITER + RANGES	C	5	0	0	-6.5																							
51		C	2																										
52		C	0																										
53		C	2																										
54		C	5																										
55	ORBITER	C	5	0	0	-6.5				24		33*																	
56		C	2							25																			
57		C	0							26																			
58		C	2							27																			
59		C	5													51													

α OR β SCHEDULES
 α) C = 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30
 α) E = 0, 2, 4, 6, 8, 10, 12

α) H = 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30

TABLE II. - Continued

DATE: POST TEST

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: Q4161 A,B,C

[illegible]

TABLE II. - Concluded

[illegible]

TABLE III MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B26

GENERAL DESCRIPTION : Continuation 140A/B Orbiter fuselage.

NOTE: B₂₆ is identical to B₂₄, except underside of fuselage has been
refaired to accept W₁₁₂.

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000143B -000200 -000205 -004089 -000145,
VL70-000140A -000140B

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length (OML: Fwd. Sta. $X_0=235$). In.	1293.3	38.799
Length (IML: Fwd. Sta. $X_0=238$) In.	1290.3	38.709
Max Width (@ $X_0 = 1528.3$). In.	264.0	7.920
Max Depth (@ $X_0 = 1564$) In.	250.00	7.500
Fineness Ratio	0.264	0.264
Area - Ft ²		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Cont'd)

MODEL COMPONENT: CANOPY - C_g

GENERAL DESCRIPTION: Configuration 3A. Canopy used with fuselage
B26.

MODEL SCALE: 0.030.

DRAWING NUMBER VL70-000143A

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (X_0 - 434.643 to 578) In.	<u>143.357</u>	<u>4.301</u>
Max Width (@ X_0 = 513.127). In.	<u>152.412</u>	<u>4.572</u>
Max Depth (@ X_0 = 185.0). In.	<u>25.000</u>	<u>0.750</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max Cross-Sectional	<u> </u>	<u> </u>
Platform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

MODEL COMPONENT: SLOTTED ELEVON (6-INCH GAP) - E₄₂GENERAL DESCRIPTION: Configuration 140A 'B' Orbiter elevon.NOTE: E₄₂ is a slotted version of E₄₄. Data are for one side.MODEL SCALE: 0.030DRAWING NUMBER: VL70-000200 -006089. -006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft. ²	<u>210.00</u>	<u>0.189</u>
Span (equivalent), In.	<u>349.2</u>	<u>10.476</u>
Inb'd equivalent chord, In.	<u>118.004</u>	<u>3.540</u>
Outb'd equivalent chord, In.	<u>55.192</u>	<u>1.656</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
(Product of Area & c)		
Area Moment (Normal to hingeline), Ft. ³	<u>1587.25</u>	<u>0.043</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>2.721</u>

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE III (Cont'd)

MODEL COMPONENT: BODY FLAP - F_BGENERAL DESCRIPTION: Confirmation 140A 'B' orbiter body flap.Hingeline located at $X_0 = 1524.3$, $Z_0 = 284.3$ MODEL SCALE: 0.030.DRAWING NUMBER VL70-000140A, -000145DIMENSION:FULL SCALEMODEL SCALELength ($X_0 = 1520$ to $X_0 = 1613$). In.93.002.79

Max Width (In.)

262.007.86Max Depth (@ $X = 1520$) In..23.000.69

Fineness Ratio

Area - Ft²

Max Cross-Sectional

Planform

150.525.1355

Wetted

Base

11.847.0377

TABLE III (Cont'd)

MODEL COMPONENT: OMS POD - M16GENERAL DESCRIPTION: Configuration 140C orbiter OMS pod + short pod.MODEL SCALE: 0.030

DRAWING NUMBER

VI70-008401, -008410DIMENSION:FULL SCALEMODEL SCALELength (OMS Fwd Sta. $X_0 = 1310.5$). In.258.507.755Max Width (@ $X_0 = 1511$). In.136.84.104Max Depth (@ $X_0 = 1511$). In.74.702.241

Fineness Ratio

2.4842.484Area - ft^2

Max Cross-Sectional

58.8640.053

Planform

Wetted

Base

TABLE III (Cont'd)

MODEL COMPONENT: MPJ NOZZLES - N₂

GENERAL DESCRIPTION: Configuration 1/4OA 'B Orbiter MPS Nozzles.

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-005030A, -000140A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.0</u>	<u>4.71</u>
Throat to Exit Plane	<u>99.2</u>	<u>2.976</u>
Diameter - In.		
Exit	<u>91.00</u>	<u>2.73</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area - ft ²		
Exit	<u>45.17</u>	<u>0.0407</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X	<u>1445.</u>	<u>43.35</u>
Y	<u>0</u>	<u>0</u>
Z	<u>443.00</u>	<u>13.29</u>
Lower Nozzles		
X	<u>1468.17</u>	<u>44.045</u>
Y	<u>± 53.00</u>	<u>± 1.59</u>
Z	<u>342.64</u>	<u>10.279</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16</u>	<u>16</u>
Yaw	<u>0</u>	<u>0</u>
Lower Nozzle		
Pitch	<u>10</u>	<u>10</u>
Yaw	<u>3.5</u>	<u>3.5</u>

TABLE III (Cont'd)

MODEL COMPONENT: CMS NOZZLES - N28

GENERAL DESCRIPTION: Configuration 140A 'B' Orbiter OMS Nozzles.

MODEL SCALE: 0.030

DRAWING NUMBER: V170-000140A (Location)

DIMENSIONS:

FULL SCALE

MODEL SCALE

MACH NO.

Length - In.

Gimbal Point to Exit Plane
Throat to Exit Plane

Diameter - In.

Exit
Throat
Inlet

Area - ft²

Exit
Throat

Gimbal Point (Station) - In.

Left ~~Upper~~ Nozzle

X₀
Y₀
Z₀

1518.0

45.54

88.0

2.65

492.0

14.76

Right ~~Upper~~ Nozzles

X₀
Y₀
Z₀

1518.0

45.54

88.0

2.64

492.0

14.76

Null Position - Deg.

Left ~~Upper~~ Nozzle

Pitch
Yaw

15° 49'

15° 49'

12° 17'

12° 17'

Right ~~Upper~~ Nozzle

Pitch
Yaw

15° 49'

15° 49'

12° 17'

12° 17'

TABLE III (Cont'd)

MODEL COMPONENT: RUDDER - R₂GENERAL DESCRIPTION: Configuration 140C orbiter rudder (identical to
Configuration 140A/B rudder).MODEL SCALE: 0.030DRAWING NUMBER: VL70-000146B. --000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>100.15</u>	<u>0.090</u>
Span (equivalent), In.	<u>201.00</u>	<u>6.030</u>
Inb'd equivalent chord, In.	<u>91.985</u>	<u>2.748</u>
Outb'd equivalent chord, In.	<u>50.833</u>	<u>1.525</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Product of area & \bar{c}) (Normal to hingeline) Ft ³	<u>610.92</u>	<u>0.0165</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>2.196</u>

TABLE III (Cont'd)

MODEL COMPONENT: VERTICAL - VgGENERAL DESCRIPTION: Configuration 140C orbiter vertical tail(Identical to configuration 140A 'B' vertical tail).MODEL SCALE: 0.030DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:

FULL SCALEMODEL SCALE

TOTAL DATA

Area (Theo) - Ft^2

Planform

413.2530.372

Span (Theo) - In.

315.729.472

Aspect Ratio

1.6751.675

Rate of Taper

0.5070.507

Taper Ratio

0.4040.404

Sweep-Back Angles, Degrees.

Leading Edge

45.00045.000

Trailing Edge

26.2526.25

0.25 Element Line

41.1341.13

Chords:

Root (Theo) WP

268.508.055

Tip (Theo) WP

108.473.254

MAC

199.815.994

Fus. Sta. of .25 MAC

1463.3543.901

W.P. of .25 MAC

635.9219.066

B.L. of .25 MAC

0.00.0

Airfoil Section

Leading Wedge Angle - Deg.

10.0010.00

Trailing Wedge Angle - Deg.

14.9214.92

Leading Edge Radius

3.000.060

Void Area

13.170.0019

Blanketed Area

TABLE III (Cont'd)

MODEL COMPONENT: <u>WING-W₁₁₄</u>		
GENERAL DESCRIPTION: <u>Configuration 4</u>		
NOTE: Identical to W ₁₁₁ , except airfoil thickness. Dihedral angle is along trailing edge of wing.		
MODEL SCALE: <u>0.030</u>		
TEST NO.	DWG. NO. <u>VL70-0001A, -000200</u>	
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) ft^2		
Planform	2690.00	2.421
Span (Theo in.)	936.68	28.10
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	3.000	3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	10.056	10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.24	20.677
Tip, (Theo) B.P.	137.85	4.136
MAC	474.81	14.244
Fus. Sta. of .25 MAC	1136.81	34.105
W.P. of .25 MAC	290.58	8.717
B.L. of .25 MAC	182.13	5.464
EXPOSED DATA		
Area (Theo) ft^2	1751.50	1.576
Span, (Theo) in. BP108	720.68	21.620
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	16.863
Tip 1.00 $\frac{b}{2}$	137.85	4.136
MAC	392.81	11.785
Fus. Sta. of .25 MAC	1185.98	35.579
W.P. of .25 MAC	294.30	8.829
B.L. of .25 MAC	251.72	7.553
Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2}$	0.113	0.113
Tip $\frac{b}{2}$	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area ft^2	113.18	
Leading Edge Intersects Fus M. L. @ Sta	500.00	
Leading Edge Intersects Wing @ Sta	1024.00	

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Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

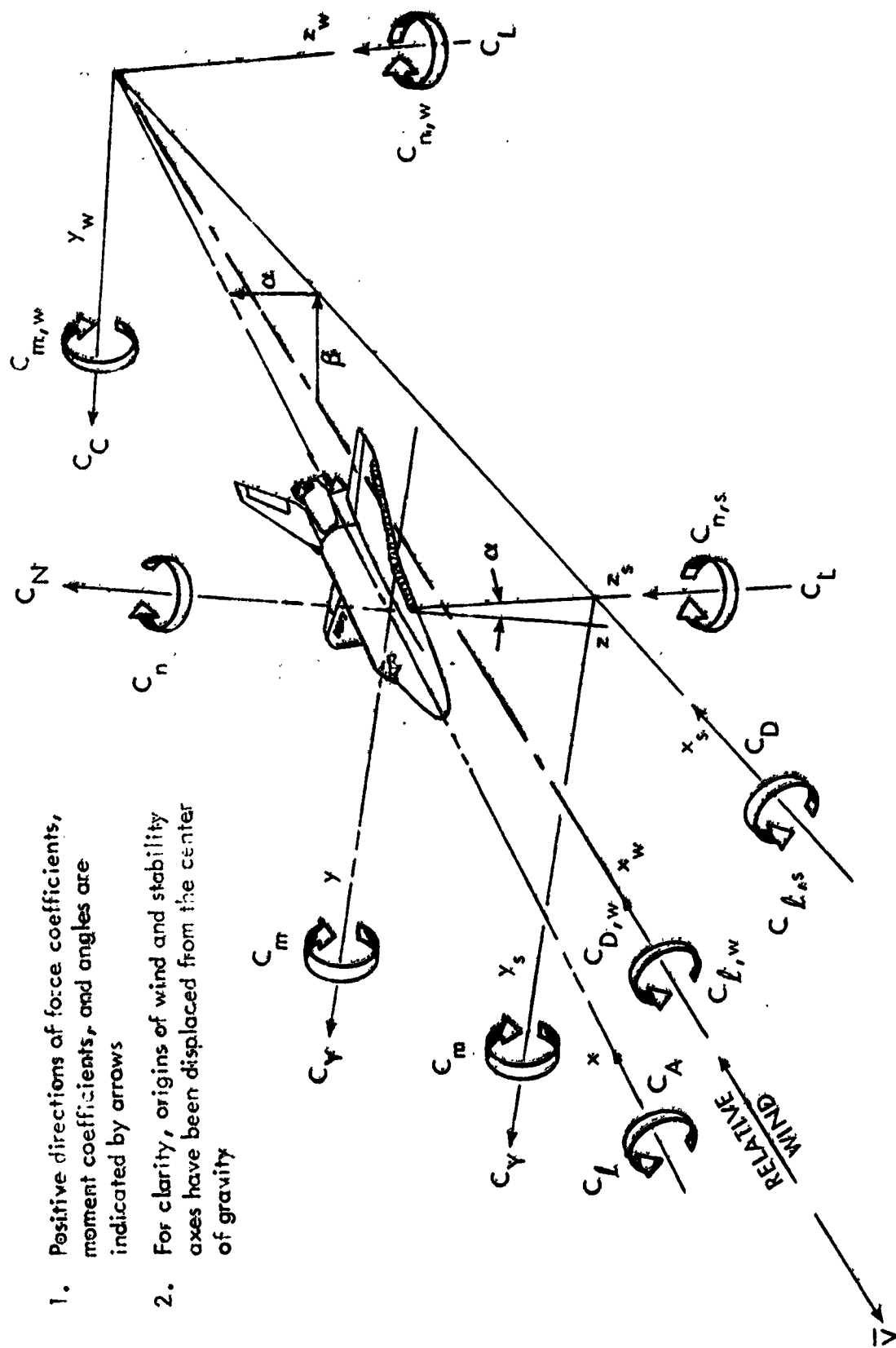
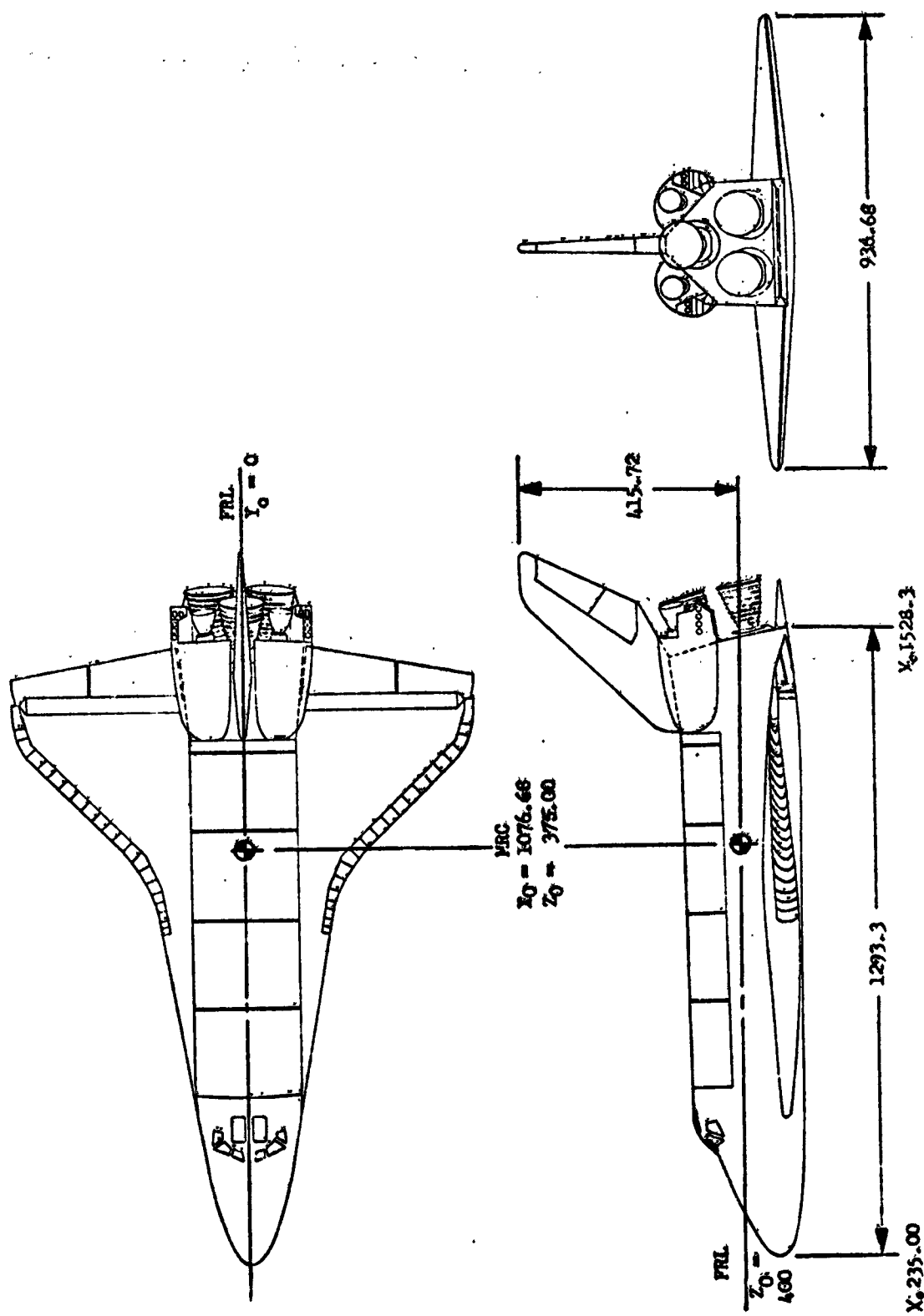
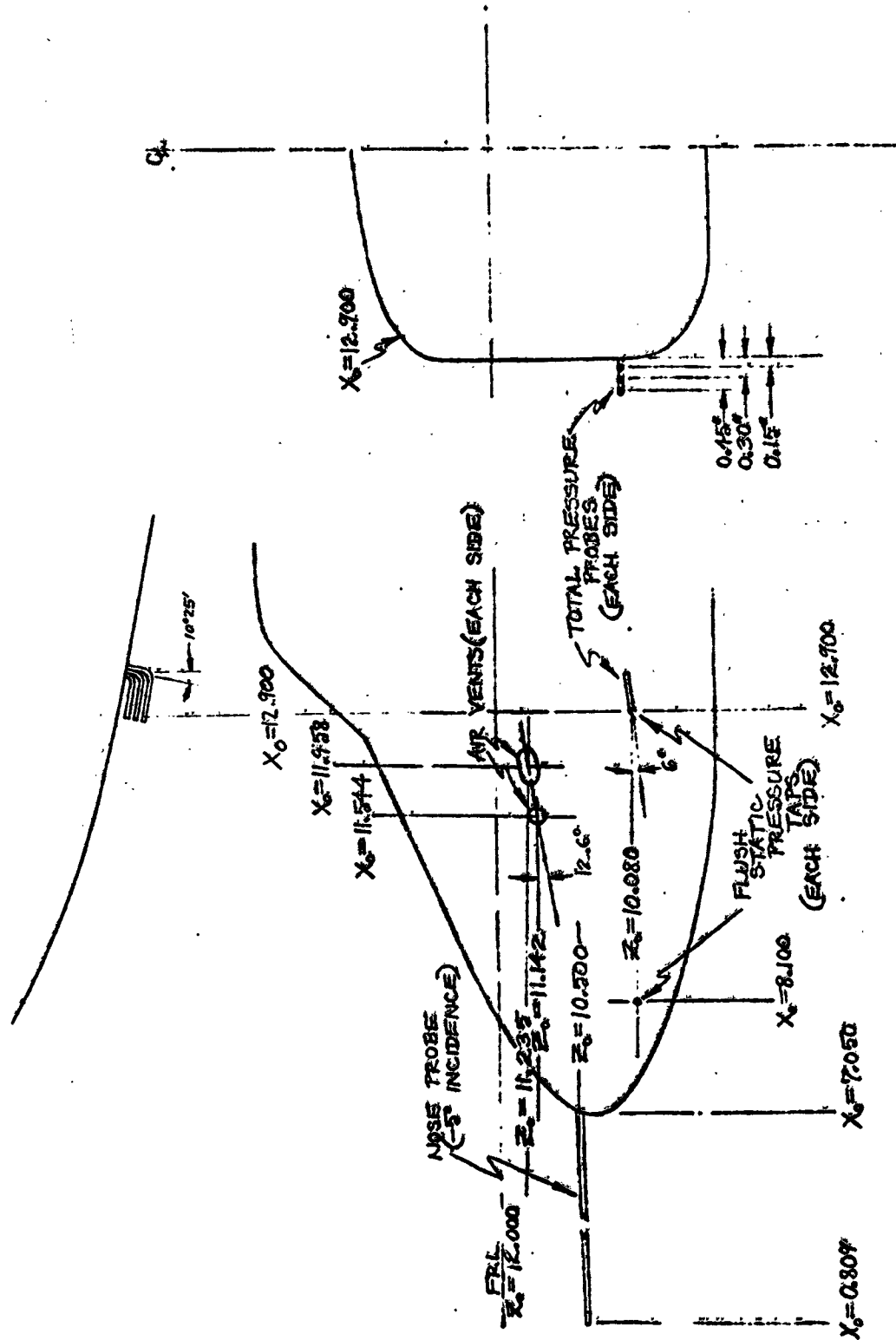


Figure 1. - Axis systems



a. Three-View of Modified Orbiter Configuration

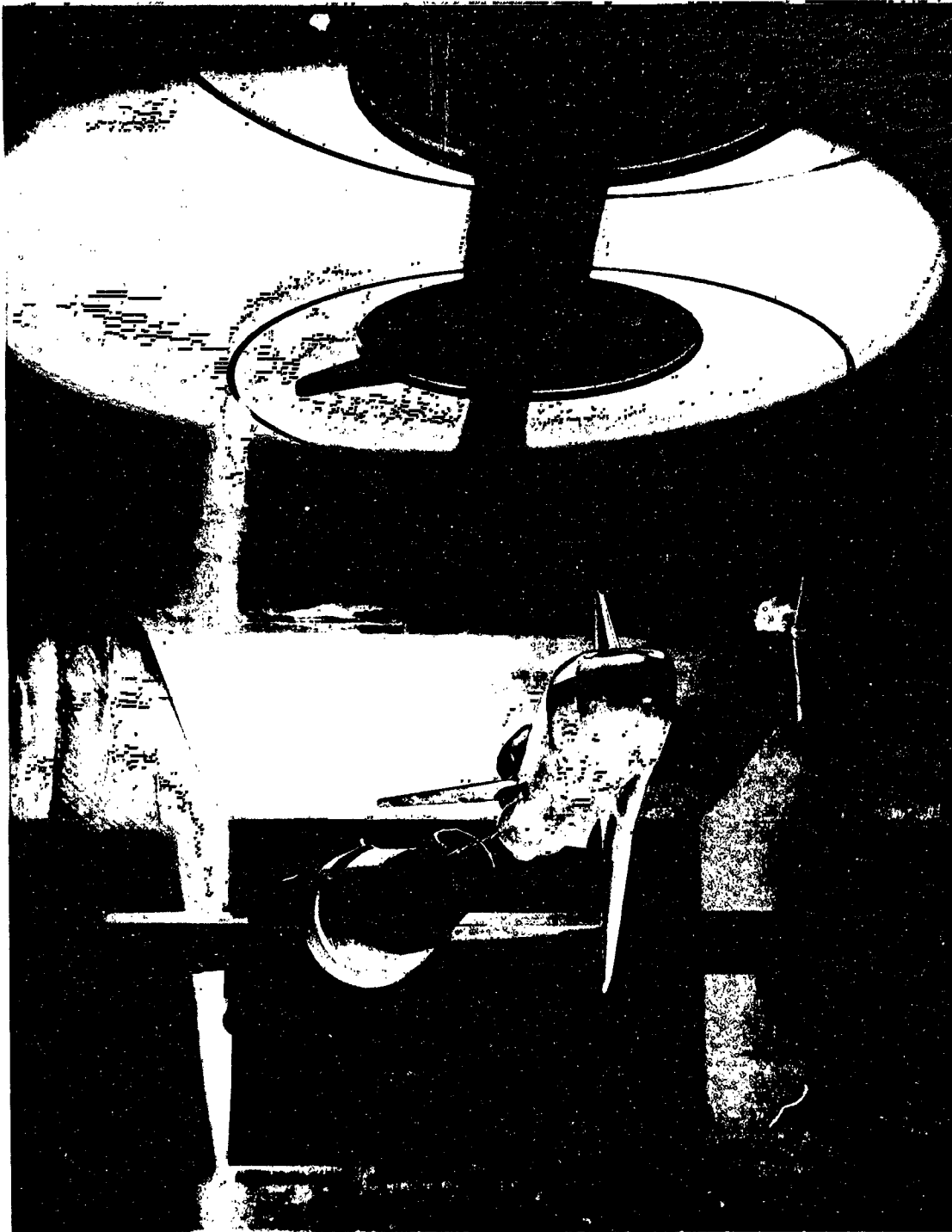
Figure 2. - Model sketches.



b. Pitot/Static Instrumentation for Model

Figure 2. - Concluded.

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a. Three-Quarter Front View of Model Mounted Upright in the 8 x 7 Foot Tunnel

Figure 3. - Model Photographs.

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b. Rear View of Model Mounted Sideways in the 8 x 7 Foot Tunnel

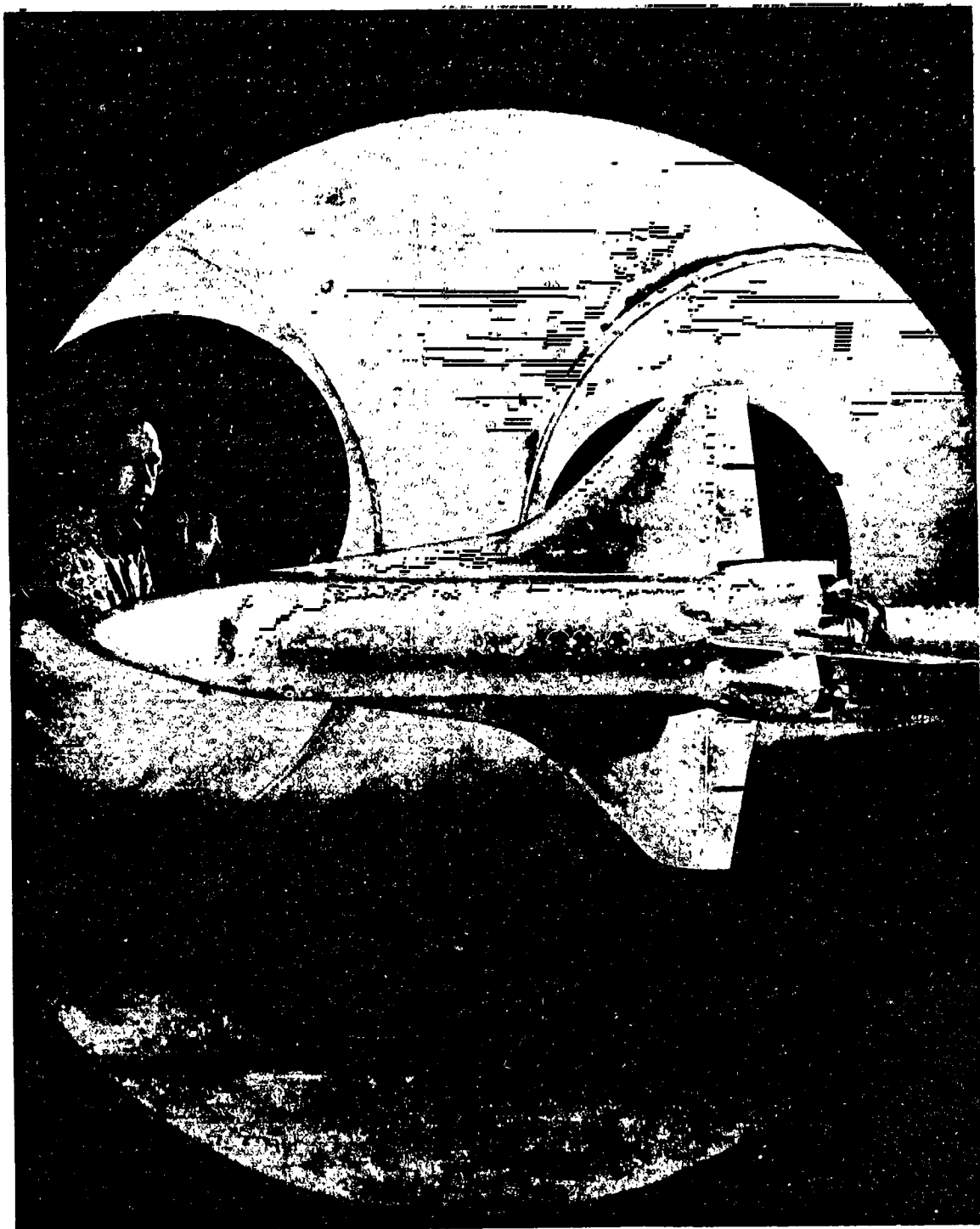
Figure 3. - Continued.



c. Front View of Model Mounted Sideways in the 9 x 7 Foot Tunnel

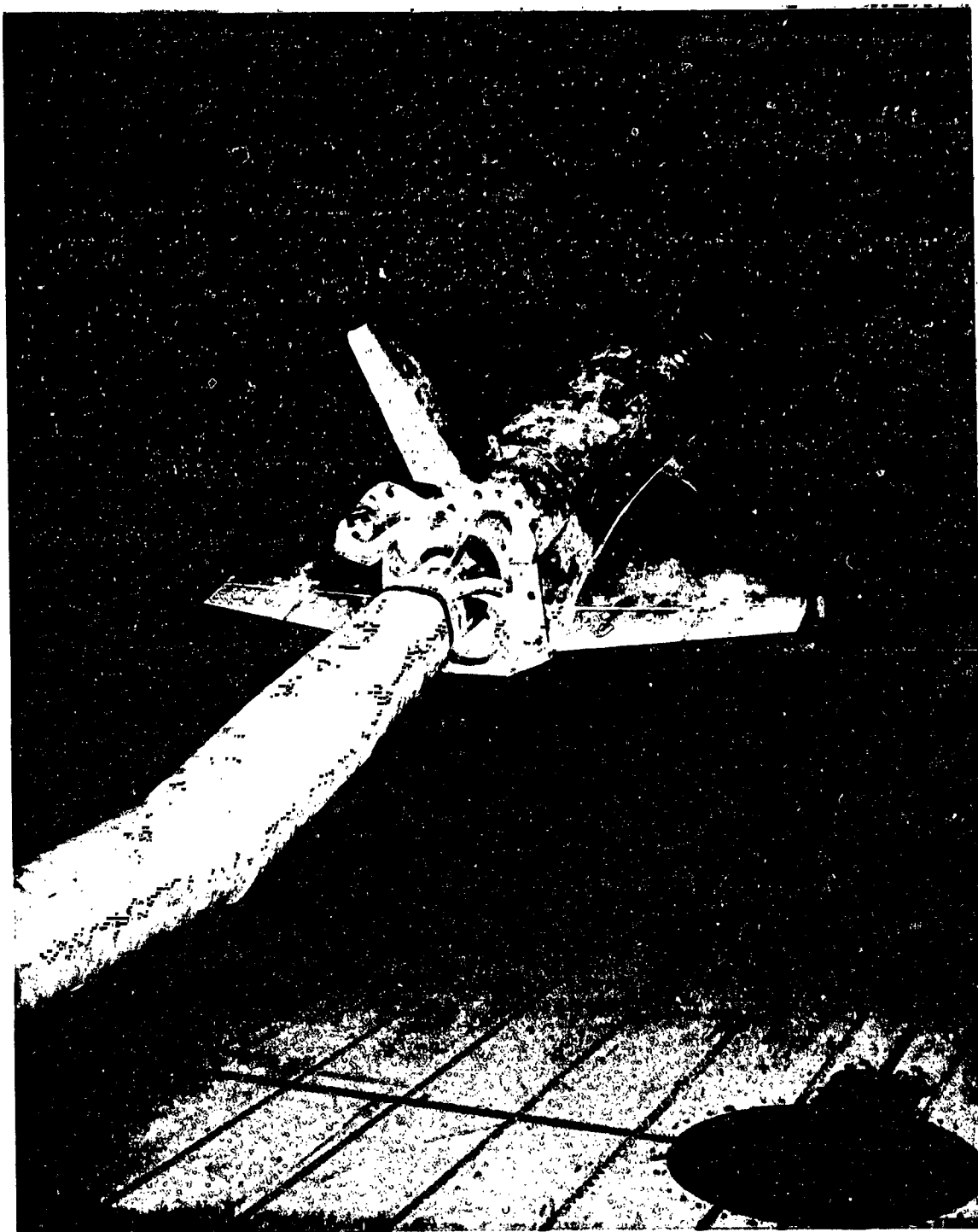
Figure 3. - Continued.

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d. Top View of Model Mounted Sideways in the 9 x 7 Foot Tunnel

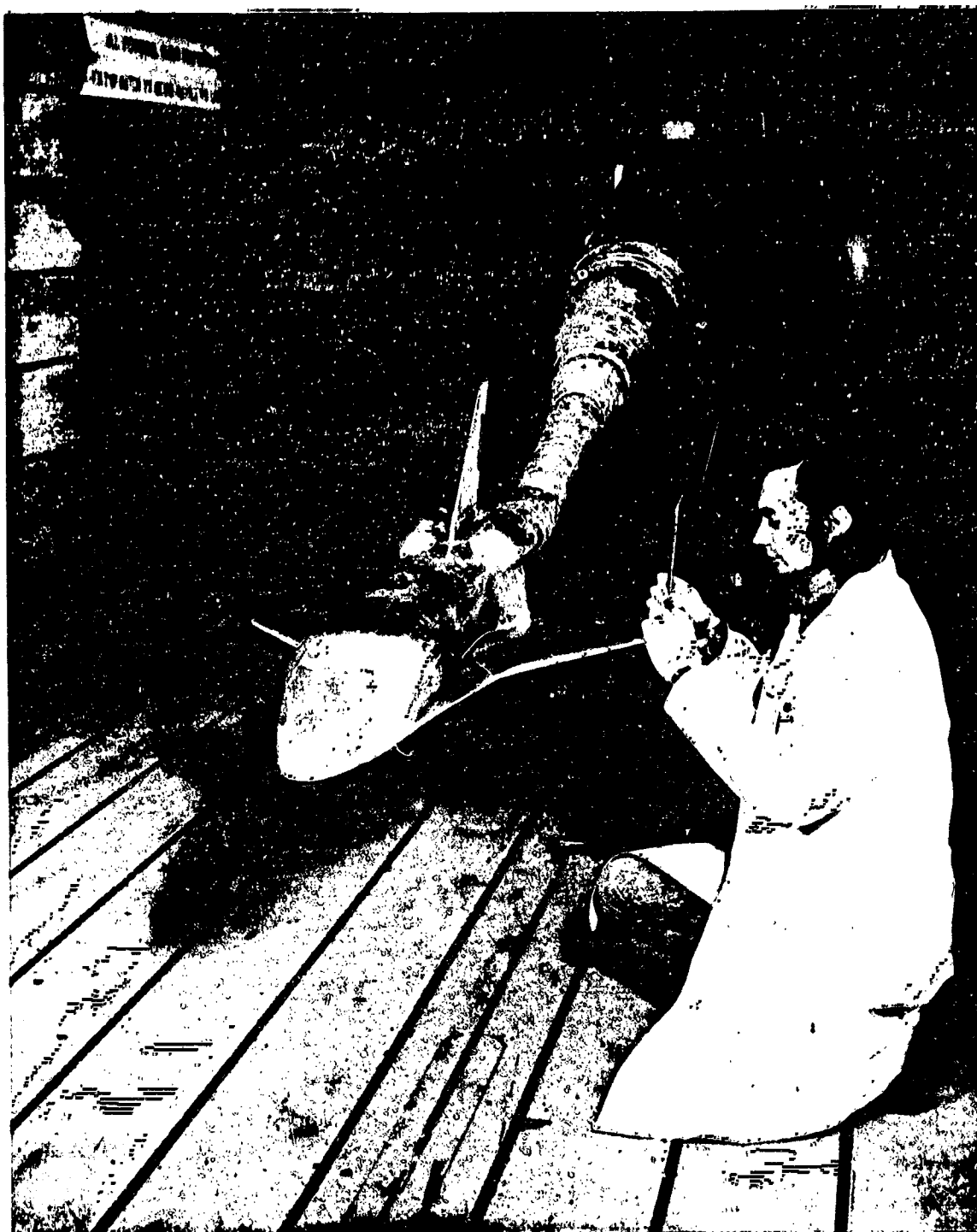
Figure 3. - Continued.



e. Rear View of Model Mounted Upright in the 11 x 11 Foot Tunnel

Figure 3. - Continued.

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f. Front View of Model Mounted Upright in the 11 x 11 Foot Tunnel

Figure 3. - Concluded.

APPENDIX
TABULATED DATA

<u>CONTENTS</u>	<u>DATASET IDENTIFIER</u>	<u>PAGES</u>
Wind Tunnel Balance Data	RE7C\$\$	1-161
Wind Tunnel Static Pressure Ratios	AE7R\$\$	162-322
Wind Tunnel Total Pressure Ratios	BE7R\$\$	323-483
Calculations for the Left Rake	EE7 $\begin{pmatrix} B \\ C \\ D \\ X \end{pmatrix}$ 03 \Rightarrow 07	484-587
Calculations for the Right Rake	FE7 $\begin{pmatrix} B \\ C \\ D \\ X \end{pmatrix}$ 03 \Rightarrow 07	588-691
Calculations of Q Ratio for Both Rakes & Probes	BE7H01, 03 \Rightarrow 07 38 \Rightarrow 49	691-732
Calculations for the Nose and Wing Probes	GE7 $\begin{pmatrix} B \\ X \end{pmatrix}$ 38 \Rightarrow 49	733-756

Note: \$\$ is a mask character (assumes all possible values)
For this test the datasets are 1 \Rightarrow 49, 55 \Rightarrow 59.

PAGE 1
(RE7001) (02 AUG 76)

TABULATED DATA - DATE: (ARC 11-97-87-C9*)
ARC 11-97-87-08* 0A161 ORBITTER - WING + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = .080 BOFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	.059	.16200	-.04250	.05130	.01310	-.04240	.05130	.00190	-.00020	.00050	-.82870
.595	.022	.20740	-.04090	.04550	.04020	-.03780	.04830	-.00120	-.00020	.00040	-.89850
.595	.064	.21740	.00940	.04620	.06630	.00690	.04570	-.00210	-.00010	.00050	.00870
.595	.146	.20890	.07040	.06300	.09250	.08210	.04670	-.00270	-.00020	.00030	.11860
.595	.168	.23170	.14090	.09180	.13420	.16130	.04750	-.00050	-.00050	.00040	.13350
.595	.20.639	.23150	.19570	.12880	.18140	.28870	.05070	.00060	-.00030	.00030	.15200
.595	.24.765	.24450	.24050	.16370	.22870	.28630	.04730	.00320	-.00140	.00010	.15590
.597	GRADIENT	.01149	.00040	-.00147	.00686	.00121	-.00076	-.00078	-.00060	-.00003	-.01788

GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.057	.16540	-.04580	.05350	.01500	-.04570	.05350	.00110	-.00050	.00050	-.85560
.599	.019	.20470	-.03840	.04770	.04280	-.03470	.05030	.00040	.00010	.00040	-.79810
.599	.073	.21220	.07550	.04970	.06890	.01240	.04850	.00190	.00130	.00050	.10990
.599	.12.376	.20900	.08010	.06800	.09870	.09280	.04920	.00180	-.00330	.00020	.11780
.599	.16.532	.23040	.14560	.09590	.14130	.16580	.05650	-.00060	-.00040	.00040	.15480
.597	.20.705	.23320	.20360	.13340	.19180	.23770	.05280	.00300	-.00020	.00040	.15260
.597	.24.854	.25760	.25870	.17330	.24400	.30760	.04850	.00430	-.00450	.00110	.15260
.597	GRADIENT	.00992	.00194	-.00146	.00732	.00278	-.00081	-.00018	.00015	-.00083	.01452

GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.799	.041	.16490	-.05140	.05780	.01910	-.05130	.05780	.00040	-.00020	.00030	-.88910
.799	.013	.20160	-.03790	.05190	.04750	-.03410	.05440	.00010	.00040	.00030	-.72950
.799	.083	.21090	.01100	.05670	.07370	.01870	.05360	.00280	.00960	.00050	.19730
.797	.12.400	.21590	.08770	.07390	.10530	.10160	.05340	.00080	-.00040	.00040	.11970
.795	.15.594	.23740	.15740	.10550	.15240	.18100	.05620	.00320	-.00200	.00100	.14910
.795	.20.778	.24530	.21930	.14560	.20490	.25670	.05830	.00670	-.00330	.00170	.15080
.795	.24.949	.25610	.27810	.19230	.25820	.33320	.05700	.00070	-.00630	.00220	.14460
.795	GRADIENT	.00224	.00340	-.00149	.00715	.00433	-.00086	.00013	.00015	.00000	.04018

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TABULATED DATA - 0A164 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - WING + RAKES

(RE7081) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = .000 BDFLAP = -7.170

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.902	.028	.15640	-.05970	.07240	.02870	-.05970	.07250	.00290	.00050	.00000	-.82460
.903	4.018	.20410	-.04080	.06630	.05890	-.03600	.06900	-.00520	.00000	.00000	-.61520
.904	8.097	.21540	.01580	.06920	.08300	.02520	.06640	-.00290	.00000	.00000	.22500
.905	12.443	.22840	.09760	.08940	.11820	.11460	.06620	-.00010	-.00030	.00050	1.09270
.906	16.649	.23740	.17210	.12430	.16600	.20050	.06980	-.00720	-.00140	.00050	1.38390
.907	20.885	.24210	.23900	.16500	.23670	.28220	.06890	-.00840	-.00240	.00020	1.44910
.908	25.105	.24030	.31510	.22210	.29710	.37950	.06740	-.00420	.00020	.00020	1.41890
.909	GRADIENT	.01196	.00474	-.00153	.00757	.00594	-.00088	-.00203	-.00013	.00060	.05243

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.981	.031	.16850	-.05730	.10440	.03630	-.05720	.10440	-.00300	.00030	.00020	-.54860
.982	4.031	.20500	-.03510	.09460	.06740	-.02840	.09690	-.00350	.00040	.00010	-.37100
.983	8.137	.21850	.02570	.10080	.09810	.03970	.09610	-.00360	.00020	.00020	.25500
.984	12.528	.20800	.11390	.12640	.14840	.13860	.09870	.00090	.00070	.00050	.90130
.985	16.703	.22920	.19250	.15880	.20570	.23020	.09650	-.00010	.00020	.00050	1.21270
.986	21.008	.22570	.26560	.20360	.26550	.32090	.09490	-.00340	-.00020	.00010	1.30430
.987	25.240	.22000	.36940	.26180	.30260	.44580	.07930	.00450	.00180	.00020	1.41100
.988	GRADIENT	.00937	.00555	-.00245	.00777	.00720	-.00187	-.00012	.00017	.00002	.04439

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.104	.023	.15160	-.05260	.12230	.03640	-.05250	.12230	.00620	.00010	.00040	-.42990
1.105	4.040	.19650	-.02960	.12060	.07100	-.02100	.12240	-.00260	.00060	.00040	-.24580
1.106	8.161	.22060	.03260	.12770	.10470	.05010	.12180	-.00470	.00000	.00020	.25490
1.107	12.546	.21530	.11880	.15730	.14450	.15010	.12770	-.00270	-.00030	.00020	.75510
1.108	16.786	.25090	.19660	.19390	.19300	.24620	.12620	-.00160	.00030	.00000	1.02450
1.109	21.030	.23100	.25590	.23180	.25420	.32200	.12450	-.00030	.00090	.00000	1.10390
1.110	25.256	.22500	.35280	.29670	.27940	.44530	.11690	.00450	.00060	.00000	1.19300
1.111	GRADIENT	.01118	.00573	-.00042	.00861	.00784	.00802	-.00090	.00012	.00000	.04603

TABULATED DATA - 0A161 (ARC 11-97-87-094)

PAGE 3

ARC 11-97-87-094 0A161 ORBITER - WING + RAKES

(RE7081) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6808 IN. XO
LPER = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0330

BETA = .000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 8/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.195	.009	.16020	-.05280	.12680	.03590	-.05280	.12680	.00450	-.00040	-.00050	-.41660
1.200	4.038	.19350	-.02820	.12680	.07240	-.01950	.12430	.00050	.00810	.00050	-.23040
1.193	8.158	.20480	.03460	.13090	.10390	.05280	.12460	.00350	.00020	.00040	-.26430
1.196	12.545	.20100	.11670	.13950	.14150	.14850	.13030	.00450	-.00020	.00030	-.73160
1.195	16.783	.22220	.19130	.19330	.18670	.23910	.13940	.00340	.00020	.00020	.98570
1.191	21.027	.22420	.25250	.23360	.24210	.31950	.12758	.00160	-.00050	.00010	1.08090
1.190	25.266	.22070	.35290	.29490	.26530	.44500	.11600	.00350	-.00020	.00030	1.19580
	GRADIENT	.00829	.00611	-.00104	.00881	.00826	-.00062	-.00093	.00012	.00000	.04621

RUN NO. 9/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.298	-.004	.16350	-.09400	.12630	.03440	-.05400	.12630	.00090	-.00160	.00060	-.42760
1.298	4.024	.20220	-.02940	.12330	.06920	-.01680	.12380	.00050	-.00090	.00050	-.20780
1.297	8.151	.18520	.03590	.13080	.09810	.05410	.12440	.01700	.00080	.00070	-.27470
1.294	12.538	.20390	.11750	.15810	.13390	.14900	.12990	.00390	-.00070	.00040	-.74280
1.294	16.778	.22660	.18980	.19290	.17850	.23680	.13010	.00040	-.00070	.00010	.98090
1.293	21.026	.21860	.25270	.23170	.22960	.31808	.12560	.00330	.00840	.00004	1.09040
1.290	25.269	.22700	.35040	.29078	.25548	.44090	.11330	.00280	-.00050	.00000	1.23548
	GRADIENT	.00961	.00710	-.00099	.00854	.00923	-.00082	-.00060	.00017	-.00002	.05458

RUN NO. 10/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.408	-.022	.14420	-.05350	.12460	.05020	-.05360	.12460	.01110	.00000	.00070	-.42930
1.402	4.011	.20230	-.02810	.12058	.06330	-.01360	.12160	.00010	-.00030	.00050	-.18860
1.401	8.144	.21430	.03770	.12850	.09190	.05550	.12180	.00070	.00040	.00030	-.29318
1.400	12.526	.21020	.11580	.13410	.12550	.14640	.12530	.00040	-.00020	.00010	-.75138
1.397	16.768	.22490	.18650	.18890	.17920	.23310	.12710	.00130	.00020	.00000	.98710
1.396	21.013	.23100	.25400	.22660	.21620	.31840	.12340	.00360	.00010	-.00010	1.12120
1.394	25.266	.20480	.35020	.28610	.24250	.43840	.10330	.00150	.00010	-.00010	1.22840
	GRADIENT	.01433	.00779	-.00107	.00818	.00992	-.00074	-.00273	-.00007	-.00005	.05032

... REFER DATA - NAME (ABC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - WING

PARAMETRIC DATA

REFERENCE DATA

	2690.0000. 50:FT.	YMAP	=	1076.6800 IN. X0
SREF	=			
REF	474.8000. IN.	YMAP	=	.0000 IN. Y0
EPH	=	ZMAP	=	375.0000 IN. Z0
SCALE	936.6800 IN. .0300.			

REF ID: A67170

GRADIENT INTERVAL = -5.00% 5.00

ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
0.06	0.1620	-0.3880	0.0450	-0.3870	0.0580	0.0070	-0.0020	-0.0020	0.0070	0.76370
0.082	0.2320	-0.1490	0.04280	-0.1150	0.0100	0.0060	-0.0030	-0.0030	0.0060	0.31480
0.128	0.2420	0.0990	0.06820	0.3170	0.0598	0.0070	0.0000	0.0000	0.0050	0.98000
0.205	0.0920	0.0780	0.09380	0.10540	0.0310	0.0020	-0.0020	-0.0020	0.0020	1.37420
0.2060	0.1590	0.3320	0.13180	0.17390	0.0460	0.0000	0.0000	0.0000	0.0000	1.65195
0.337	0.2680	0.20740	0.13100	0.24020	0.0050	0.0320	0.0050	0.0050	0.0000	1.58410
0.495	0.25980	0.20740	0.13100	0.24020	0.0050	0.0320	0.0050	0.0050	0.0000	1.50570
0.53	0.26400	0.2980	0.16930	0.22580	0.0020	0.0290	-0.0150	-0.0150	-0.0020	1.1176
0.613	0.26160	0.2980	0.16930	0.22580	0.0020	0.0290	-0.0150	-0.0150	-0.0020	1.1176
GRADIENT	0.01295	0.0085	0.0705	0.0677	-0.0060	0.0120	-0.0002	-0.0002	-0.0002	0.0002

Iteration	Function Value	Gradient	Gradient Interval	Step Size
1	1.0000	0.0000	0.0000	0.0000
2	0.9999	0.0000	0.0000	0.0000
3	0.9998	0.0000	0.0000	0.0000
4	0.9997	0.0000	0.0000	0.0000
5	0.9996	0.0000	0.0000	0.0000
6	0.9995	0.0000	0.0000	0.0000
7	0.9994	0.0000	0.0000	0.0000
8	0.9993	0.0000	0.0000	0.0000
9	0.9992	0.0000	0.0000	0.0000
10	0.9991	0.0000	0.0000	0.0000
11	0.9990	0.0000	0.0000	0.0000
12	0.9989	0.0000	0.0000	0.0000
13	0.9988	0.0000	0.0000	0.0000
14	0.9987	0.0000	0.0000	0.0000
15	0.9986	0.0000	0.0000	0.0000
16	0.9985	0.0000	0.0000	0.0000
17	0.9984	0.0000	0.0000	0.0000
18	0.9983	0.0000	0.0000	0.0000
19	0.9982	0.0000	0.0000	0.0000
20	0.9981	0.0000	0.0000	0.0000
21	0.9980	0.0000	0.0000	0.0000
22	0.9979	0.0000	0.0000	0.0000
23	0.9978	0.0000	0.0000	0.0000
24	0.9977	0.0000	0.0000	0.0000
25	0.9976	0.0000	0.0000	0.0000
26	0.9975	0.0000	0.0000	0.0000
27	0.9974	0.0000	0.0000	0.0000
28	0.9973	0.0000	0.0000	0.0000
29	0.9972	0.0000	0.0000	0.0000
30	0.9971	0.0000	0.0000	0.0000
31	0.9970	0.0000	0.0000	0.0000
32	0.9969	0.0000	0.0000	0.0000
33	0.9968	0.0000	0.0000	0.0000
34	0.9967	0.0000	0.0000	0.0000
35	0.9966	0.0000	0.0000	0.0000
36	0.9965	0.0000	0.0000	0.0000
37	0.9964	0.0000	0.0000	0.0000
38	0.9963	0.0000	0.0000	0.0000
39	0.9962	0.0000	0.0000	0.0000
40	0.9961	0.0000	0.0000	0.0000
41	0.9960	0.0000	0.0000	0.0000
42	0.9959	0.0000	0.0000	0.0000
43	0.9958	0.0000	0.0000	0.0000
44	0.9957	0.0000	0.0000	0.0000
45	0.9956	0.0000	0.0000	0.0000
46	0.9955	0.0000	0.0000	0.0000
47	0.9954	0.0000	0.0000	0.0000
48	0.9953	0.0000	0.0000	0.0000
49	0.9952	0.0000	0.0000	0.0000
50	0.9951	0.0000	0.0000	0.0000
51	0.9950	0.0000	0.0000	0.0000
52	0.9949	0.0000	0.0000	0.0000
53	0.9948	0.0000	0.0000	0.0000
54	0.9947	0.0000	0.0000	0.0000
55	0.9946	0.0000	0.0000	0.0000
56	0.9945	0.0000	0.0000	0.0000
57	0.9944	0.0000	0.0000	0.0000
58	0.9943	0.0000	0.0000	0.0000
59	0.9942	0.0000	0.0000	0.0000
60	0.9941	0.0000	0.0000	0.0000
61	0.9940	0.0000	0.0000	0.0000
62	0.9939	0.0000	0.0000	0.0000
63	0.9938	0.0000	0.0000	0.0000
64	0.9937	0.0000	0.0000	0.0000
65				

PACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
9.78	.028	1.9540	-.05020	.0150	.03770	-.05020	.10150	.00110	-.00030	.00050	-.49520
9.88	4.086	.23090	-.07060	.09440	.06860	-.04380	.09560	.00000	.00040	.00050	-.31950
9.99	8.196	.04100	.09950	.09510	.09510	.09510	.08520	.00340	.00010	.00040	-.40150
9.73	12.344	2+380	.12570	.14570	.14570	.14610	.09660	.00210	.00910	.00050	.97050
9.93	20.864	1.9940	.15760	.20170	.20170	.23610	.09410	.00100	-.00050	.00040	1.26490
9.85	27.270	.27490	.20510	.26230	.26230	.33000	.09380	.00148	.00050	.00010	1.34030
9.77	35.032	.36990	.26470	.30189	.30189	.44470	.08090	.00230	.00010	.00040	1.40780
9.71	48.720	.48720	.00175	.00785	.00785	.00897	-.00145	.00027	.00017	.08000	.06618

GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

(RE7002) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - HING

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 285/ 0 RNAL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.198	.010	.1310	.04480	.12500	.03780	.04480	.12600	-.00600	-.00170	.00050	-.35580
1.197	2.054	.22700	.03200	.12290	.05590	.02760	.12390	.00540	-.00020	.00060	-.26080
1.198	4.089	.23410	.01420	.12280	.07460	.00540	.12350	-.00050	-.00020	.00060	-.11540
1.198	6.143	.24450	.01310	.12350	.03060	.03640	.12350	-.00300	-.00860	.00050	.10410
1.198	8.223	.24040	.04750	.13200	.03060	.06590	.12390	.00200	.00090	.00050	.35960
1.196	10.311	.24630	.08630	.14520	.10520	.11090	.12740	-.00120	-.00010	.00040	.59430
1.196	12.401	.25860	.12520	.16010	.14070	.15660	.12950	-.08400	-.00110	.00020	.78190
1.196	14.515	.26230	.16590	.17630	.16180	.20480	.12910	.08170	-.00070	.00020	.94100
1.197	16.638	.26720	.19930	.19420	.18680	.24680	.12900	-.00260	-.00090	.00030	1.02630
1.196	18.751	.27130	.22900	.21420	.21350	.28570	.12920	.00120	-.00100	.00030	1.05810
1.196	20.887	.26840	.26060	.23480	.23960	.32720	.12590	-.00210	-.00050	.00010	1.10550
1.196	22.998	.26430	.29870	.25950	.25920	.37630	.12220	.00350	-.00030	.00010	1.15080
1.196	25.116	.26270	.35380	.29190	.26480	.44420	.11410	.00300	-.00070	.00010	1.21190
1.196	25.169	.25800	.38300	.31370	.26530	.48210	.11260	.00250	-.00070	.00010	1.22120
1.197	GRADIENT	.00893	.00750	-.00078	.00902	.00966	-.00061	.00135	.00037	.00000	.09882

TABULATED DATA - 0A161 (ARC 11-97-87-88)

(RET003) (02 AUG 76)

ARC 11-97-87-88-89 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -5.000 ELEVON = -0.000
 ALLRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.199	.399	-4.97040	-.02070	.03150	-.02050	.14630	.06310	-.00650	.00790	-.14190
1.201	2.180	-4.97620	.09990	.00650	.10550	.14560	.06160	-.00530	.00820	.66770
1.201	4.275	-4.96620	.21690	-.01590	.22820	.14390	.07870	-.00420	.00880	1.35120
1.199	6.465	-4.94870	.33080	-.03140	.34970	.14080	.07150	-.00240	.00910	1.85020
1.197	8.545	-4.94490	.44000	-.04200	.46580	.13910	.07530	-.00180	.00800	2.12740
1.194	10.701	-4.94170	.54540	-.06020	.58180	.13750	.07830	-.00180	.00770	2.24400
1.195	12.857	-4.94230	.65360	-.07450	.70130	.13560	.08140	-.00100	.00820	2.26830
1.194	15.033	-4.95320	.76000	-.08950	.82300	.13400	.07980	.00130	.00710	2.21400
1.194	17.124	-4.96050	.84950	-.07840	.93060	.13070	.07930	.00410	.00580	2.10920
1.196	19.354	-4.98970	.93030	-.07750	1.03200	.12690	.06950	.00950	.00730	1.99850
1.193	21.517	-4.97880	1.00870	-.07840	1.13430	.12690	.06950	.01430	.00780	1.88880
1.192	23.659	-4.97210	1.08140	-.06236	1.23360	.12090	.07000	.01740	.00640	1.78510
1.192	25.774	-4.94480	1.12400	-.06236	1.30470	.11710	.06120	.02060	.00840	1.67070
	GRADIENT	.30101	.05689	-.01135	.05955	-.00057	-.00105	.00057	.00022	.35748

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.556	.029	-5.81920	-.01790	.00860	-.01780	.13950	.08540	-.00400	.00250	-.12820
1.556	2.023	-5.81990	.07340	-.00750	.07820	.13680	.08250	-.00310	.00290	.52680
1.556	4.108	-5.81630	.16930	-.02350	.17930	.13390	.07710	-.00170	.00310	1.15640
1.556	6.184	-5.81670	.26170	-.03790	.27740	.13120	.07340	.00040	.00370	1.63260
1.556	8.259	-5.81710	.35000	-.04840	.37240	.12890	.07250	.00140	.00360	1.93280
1.556	10.334	-5.81790	.43780	-.05910	.46830	.12780	.07140	.00180	.00380	2.19720
1.556	12.388	-5.81930	.51970	-.06570	.55960	.12510	.07240	.00290	.00360	2.44210
1.556	14.485	-5.81980	.60080	-.07100	.65220	.12250	.07170	.00460	.00330	2.13140
1.556	16.634	-5.81910	.67950	-.07630	.74470	.11880	.06980	.00580	.00320	2.07780
1.556	18.733	-5.82190	.75740	-.08060	.83860	.11470	.06980	.01020	.00320	2.00420
1.556	20.770	-5.84820	.83770	-.08560	.93790	.11060	.06210	.01360	.00330	1.92130
1.556	22.934	-5.81490	.96770	-.08370	1.11610	.10540	.05840	.01980	.00410	1.72980
1.556	25.961	-5.81220	1.30020	-.08260	1.16340	.10450	.05650	.02000	.00410	1.65810
	GRADIENT	.00071	.04585	-.00786	.04828	-.00137	-.00204	.00056	.00015	.31456

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.680 IN. XO
 LREF = 474.800 IN. YMRP = .000 IN. YO
 SREF = 936.680 IN. ZMRP = 375.000 IN. ZO
 SCALE = .0300

RUN NO. 3067 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	-1.099	-5.44620	-0.02020	.13626	-0.0240	-0.02040	.13820	.08930	-0.0360	.00250	-1.4830
1.750	1.962	-5.44890	.06250	.13530	-0.01490	.06700	.13310	.08530	-0.0250	.00250	.46240
1.750	3.973	-5.44940	.14760	.14070	-0.02730	.15640	.13020	.08220	-0.0070	.00250	1.04430
1.750	6.044	-5.44950	.28880	.18240	-0.03780	.24380	.12740	.07870	.00100	.00240	1.90170
1.750	9.116	-5.44750	.30790	.17060	-0.04580	.32890	.12540	.07480	.00250	.00230	1.80460
1.750	10.183	-5.44560	.38560	.19470	-0.05140	.41390	.12340	.07320	.00310	.00290	1.98050
1.750	12.229	-5.44500	.46050	.22290	-0.05660	.49730	.12030	.07190	.00410	.00330	2.05650
1.750	14.316	-5.44490	.53620	.25790	-0.06130	.58330	.11730	.07090	.00630	.00350	2.07880
1.750	16.464	-5.44430	.61240	.29550	-0.06430	.67220	.11360	.06780	.00880	.00330	2.04490
1.750	18.563	-5.44390	.68530	.34480	-0.06780	.76030	.10850	.06400	.01210	.00340	1.99050
1.750	20.586	-5.44340	.75970	.39800	-0.07110	.85110	.10550	.06100	.01520	.00340	1.93880
1.750	24.736	-5.43590	.89600	.52070	-0.07630	1.02860	.09940	.05580	.01920	.00400	1.71430
1.750	25.764	-5.43320	.92840	.55780	-0.07860	1.07860	.09830	.05480	.02000	.00420	1.68440
1.750	GRADIENT	-0.00078	.04104	.08111	-0.0611	.04339	-0.0147	-0.00174	.00071	-0.0000	.29263

RUN NO. 3157 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.925	-0.026	-5.97130	-0.02190	.12840	-0.01050	-0.02190	.12840	.09390	-0.00180	.00270	-1.17040
1.935	1.964	-5.96960	.05180	.12750	-0.01920	.05610	.12570	.08810	-0.00090	.00240	.40590
1.935	4.034	-5.97000	.12730	.13220	-0.02870	.13620	.12290	.08470	.00070	.00210	.96280
1.935	6.098	-5.97220	.19830	.14240	-0.03330	.21230	.12050	.08110	.00260	.00200	1.39270
1.935	8.161	-5.97120	.28840	.15870	-0.03850	.28820	.11980	.07500	.00490	.00180	1.69170
1.935	10.222	-5.96940	.33870	.17910	-0.04160	.36610	.11620	.07390	.00530	.00240	1.89170
1.935	12.262	-5.96920	.40900	.20490	-0.04450	.44220	.11360	.07300	.00650	.00270	1.99080
1.935	14.348	-5.96630	.47720	.23600	-0.04660	.52080	.11040	.06930	.00850	.00300	2.02240
1.935	16.483	-5.96500	.54750	.27270	-0.04880	.60220	.10620	.06410	.01100	.00310	2.00720
1.935	18.572	-5.96590	.61960	.31600	-0.05340	.68990	.10220	.05900	.01270	.00290	1.98090
1.935	20.594	-5.96190	.68790	.36530	-0.05800	.77250	.09800	.05000	.01620	.00300	1.88530
1.935	22.673	-5.96030	.75290	.41900	-0.05890	.85630	.09440	.04800	.01760	.00370	1.79700
1.935	24.737	-5.95610	.81980	.48020	-0.06230	.94460	.09110	.04510	.01840	.00410	1.70510
1.935	25.762	-5.95210	.86230	.51330	-0.06440	.99070	.08930	.04350	.01870	.00450	1.66640
1.935	GRADIENT	.00076	.00094	.00094	-0.00418	.03834	-0.0135	-0.00225	.00062	-0.0015	.27593

TABULATED DATA - 04161 (ARC 11-97-87-094)

(RET003) (02 AUG 76)

ARC 11-97-87-094 04161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.000' SO. FT. XMRP = 1078.680 IN. X0
 LREF = 474.800 IN. YMRP = 0000 IN. Y0
 BREF = 936.680 IN. ZMRP = 375.000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = -0.00
 AIRLON = .000 BOFLAP = -7.170

RUN NO. 316 0 RML = 3.0% GRADIENT INTERVAL = -5.00' 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	LAD
2.250	-1.100	-6.11270	-0.0640	1.2078	-0.1630	-0.2650	1.2070	1.0190	-0.00430	0.0280	-2.1870
2.250	1.881	-6.11300	0.0380	1.1990	-0.2170	0.4310	1.1850	0.9850	-0.0340	0.0270	3.2680
2.250	3.941	-6.11297	1.0200	1.2330	-0.2680	1.1030	1.1650	0.9340	0.0200	0.0270	8.2750
2.250	5.996	-6.10986	1.6720	1.3120	-0.3130	1.8000	1.1310	0.8540	-0.0040	0.0270	1.27380
2.250	8.082	-6.11170	2.3070	1.4500	-0.3240	2.4880	1.1130	0.8140	0.0200	0.0270	1.59120
2.250	10.165	-6.11200	2.9490	1.6330	-0.3320	3.1900	1.0900	0.8060	0.0330	0.0330	1.80890
2.250	12.135	-6.10990	3.6010	1.8630	-0.3510	3.9120	1.0640	0.7580	0.0550	0.0340	1.93320
2.250	14.213	-6.10560	4.2790	2.1440	-0.3810	4.6790	1.0280	0.7450	0.0680	0.0380	1.98580
2.250	16.343	-6.10270	4.9190	2.4780	-0.4030	5.4170	0.9840	0.7250	0.0420	0.0430	1.93490
2.250	18.425	-6.10030	5.5090	2.8660	-0.4340	6.2340	0.9380	0.7030	0.0110	0.0460	1.87820
2.250	20.440	-6.09850	6.0550	3.3360	-0.4690	7.0360	0.9110	0.6890	0.0300	0.0500	1.79350
2.250	22.509	-6.09470	6.6870	3.8400	-0.4930	7.8320	0.8830	0.6800	0.0440	0.0550	1.70770
2.250	24.565	-6.09180	7.3100	4.4100	-0.5250	8.6820	0.8630	0.6740	0.0140	0.0560	1.66260
2.250	25.588	-6.08900	7.8570	4.7230	-0.5470	9.1260	0.8660	0.6740	0.0140	0.0560	1.66260
	GRADIENT	-0.0005	0.0317	0.0065	-0.0262	0.3387	-0.0116	-0.0210	0.0057	-0.0022	0.2983

RN/L = 2.01 GRADIENT INTERVAL = -5.00' 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	LAD
2.499	0.094	-4.94730	-0.0330	1.1530	-0.1920	-0.3330	1.1240	0.9540	-0.00210	0.0280	-2.9040
2.499	2.131	-4.94650	0.1980	1.1290	-0.2250	0.2390	1.1210	0.9000	-0.0110	0.0270	1.7490
2.499	4.183	-4.96100	0.7720	1.1560	-0.2570	0.8540	1.0970	0.8450	0.0030	0.0280	5.5780
2.499	6.219	-4.97910	1.3520	1.2200	-0.2690	1.4860	1.0550	0.8100	0.0020	0.0300	1.11590
2.499	8.250	-4.99180	1.9590	1.3370	-0.2810	2.1300	1.0420	0.7590	0.0320	0.0350	1.46490
2.499	10.297	-5.00220	2.6020	1.5160	-0.2880	2.8310	1.0270	0.7440	0.0490	0.0430	1.71620
2.499	12.331	-5.00850	3.2440	1.7370	-0.3090	3.5410	1.0040	0.7230	0.0630	0.0580	1.96750
2.499	14.382	-5.00990	3.9110	2.0150	-0.3310	4.2890	0.9810	0.6970	0.0730	0.0570	1.94060
2.499	16.413	-5.00790	4.5580	2.3320	-0.3530	5.0310	0.9490	0.6770	0.0840	0.0620	1.95430
2.499	18.461	-5.00240	5.2750	2.7240	-0.3840	5.8200	0.9360	0.6530	0.0100	0.0660	1.94750
2.499	20.507	-4.99270	5.8240	3.1520	-0.4040	6.6590	0.9120	0.6450	0.0100	0.0720	1.77340
2.499	22.541	-4.97780	6.4490	3.6360	-0.4330	7.3600	0.8850	0.6190	0.0180	0.0780	1.69010
2.499	24.592	-4.95970	7.0660	4.1810	-0.4670	8.1640	0.8610	0.6020	0.0120	0.0860	1.64640
2.499	25.614	-4.94300	7.3610	4.4710	-0.4790	8.5710	0.8490	0.6050	0.0130	0.0820	1.64640
	GRADIENT	-0.01069	0.0270	0.0007	-0.0150	0.2903	-0.00139	-0.0291	0.0059	-0.0030	0.23431

(RE7803) (02 AUG 76)

TABULATED DATA - OR161 (ARC 11-97-87-094)

ARC 11-97-87-094 ORBITER + RAKES

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YQ
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
 SCALE = .0300

BETA =
 ATILRON =

-5.000 ELEVON = .000
 .008 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 4404 Q RNL = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.000	-.009	-4.88390	-.0440	.10340	-.02270	-.0440	.10340	.09420	-.00120	.00210	-4.2980
3.000	2.030	-4.90540	.00360	.10070	-.02270	.00720	.10050	.08690	-.00080	.00660	-3.3620
3.000	4.060	-4.92740	.05320	.10080	-.02300	.06020	.09560	.08300	.00040	.00370	-5.2750
3.000	6.109	-4.94570	.10540	.10530	-.02360	.11500	.09350	.07970	.00210	.00360	1.00070
3.000	8.123	-4.96860	.15940	.11500	-.02370	.17400	.09130	.07640	.00390	.00430	1.38650
3.000	10.160	-4.98750	.21490	.12970	-.02380	.23440	.08990	.07340	.00370	.00530	1.65540
3.000	12.192	-4.97410	.27150	.14940	-.02370	.29700	.08860	.07350	.00440	.00520	1.81630
3.000	14.217	-4.97350	.32960	.17310	-.02420	.36200	.08680	.06950	.00500	.00690	1.98400
3.000	16.249	-4.97350	.38860	.20170	-.02450	.42950	.08490	.06910	.00530	.00730	2.16730
3.000	18.282	-4.96550	.44770	.23570	-.02690	.49910	.08330	.06430	.00690	.00800	2.36330
3.000	20.327	-4.95740	.50810	.27570	-.02870	.57230	.08200	.05610	.00820	.00810	2.57110
3.000	22.366	-4.94280	.56850	.32100	-.03160	.64490	.08050	.04650	.00950	.00810	2.79970
3.000	24.422	-4.92490	.62650	.37080	-.03350	.72370	.07890	.03990	.01110	.00900	3.04840
3.000	26.411	-4.91470	.68470	.39720	-.03470	.76180	.07780	.05940	.01160	.00790	3.30640
3.000	28.415	-.01070	.02401	-.00064	-.00007	.02573	-.00162	-.00276	.00039	.00027	2.3654

RUN NO. 4317 Q RNL = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.000	-.189	-5.09780	-.04410	.09790	-.02500	-.0440	.09780	.09030	-.00040	.00120	-4.5020
3.000	1.829	-5.12230	-.00660	.09390	-.02320	-.00350	.09410	.08650	.00020	.00210	-0.6870
3.000	3.854	-5.14290	.03960	.09260	-.02260	.04570	.08970	.08220	.00100	.00290	-4.2780
3.000	5.881	-5.15910	.08580	.09590	-.02220	.09440	.08570	.07730	.00150	.00360	0.8560
3.000	7.907	-5.17240	.13410	.10360	-.02130	.14700	.08420	.07470	.00240	.00460	1.29390
3.000	9.935	-5.18200	.18470	.11650	-.02040	.20260	.08300	.07360	.00280	.00590	1.58430
3.000	11.964	-5.19900	.23820	.13400	-.01970	.26090	.08170	.07350	.00360	.00670	1.7745
3.000	14.007	-5.19930	.29570	.15680	-.01960	.32480	.08060	.07150	.00440	.00750	1.95520
3.000	16.021	-5.18430	.35050	.19360	-.01910	.38460	.07970	.06910	.00540	.00920	2.13890
3.000	18.075	-5.18060	.41030	.21680	-.02000	.45730	.07880	.06470	.00600	.00910	2.32410
3.000	20.120	-5.17210	.46920	.25440	-.02100	.52810	.07750	.06340	.00710	.00930	2.51780
3.000	22.110	-5.15560	.52520	.29630	-.02240	.59900	.07650	.06080	.00890	.00930	2.71720
3.000	24.139	-5.13750	.58520	.34490	-.02400	.67500	.07530	.05620	.00990	.00940	2.92440
3.000	26.154	-5.12760	.61300	.37040	-.02540	.71230	.07470	.05670	.00960	.00940	3.13220
3.000	28.151	-.01115	.02071	-.00131	.00059	.02229	-.00200	-.00200	.00035	.00042	2.1720

ORIGINAL PAGE IS
 OF POOR QUALITY

TABULATED DATA - 0AL61 (ARC 11-97-87-024)

(RE70024) (DE AUG 76)

ARC 11-97-87-024 0AL61 ORBITTER - RAKES.

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LPEF = 474.8000 IN. YMRP = .0000 IN. Y0
 SPEF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0380

BETA =
 AIRRON =

-2.000 ELEVON = .000
 .000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.556	.029	-2.58140	-.01780	.13880	.01010	-.01780	.13880	.03420	-.00080	.00120	-.12850
1.555	.025	-2.57978	.07350	.13948	-.00610	.07840	.13670	.03170	-.00080	.00120	-.52720
1.555	4.108	-2.58050	.16820	.14680	-.02240	.17890	.13430	.03070	.00310	.00140	1.14980
1.556	6.182	-2.59110	.26100	.16050	-.03680	.27680	.13460	.03040	.00310	.00160	1.62470
1.556	8.259	-2.57990	.35260	.18750	-.04990	.37510	.12990	.02930	.00310	.00170	1.93240
1.552	10.330	-2.58000	.43510	.20930	-.05800	.46560	.12810	.03110	.00110	.00170	2.07660
1.555	12.378	-2.59140	.51440	.24220	-.06420	.55440	.12630	.03140	.00120	.00140	2.12350
1.555	14.459	-2.59290	.59480	.32740	-.07200	.64620	.12360	.03340	.00240	.00160	2.11580
1.555	16.617	-2.58050	.67450	.37950	-.07860	.74080	.12080	.03330	.00240	.00140	2.06050
1.555	18.716	-2.57820	.75430	.43770	-.08250	.83620	.11730	.03150	.00380	.00150	1.98830
1.555	20.753	-2.57680	.83390	.5080	-.08630	.93490	.11380	.03070	.00540	.00160	1.90510
1.556	24.815	-2.57020	.97020	.57080	-.08690	1.12040	.10890	.02680	.00850	.00190	1.69930
1.556	25.943	-2.56800	1.00190	.60740	-.08650	1.16670	.10790	.02570	.00940	.00190	1.64300
1.555	GRADIENT	.00022	.04575	.00197	-.00797	.04023	-.00110	-.00286	.00022	.00025	.31334

RUN NO. 367/ 0 RN/L = 3.02 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 367/ 0

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	-.093	-2.41170	-.02090	.13620	-.00140	-.02110	.13620	.03430	-.00040	.00090	-.15337
1.750	1.954	-2.41270	.06250	.13560	-.01130	.06780	.13340	.03350	.00010	.00090	-.46140
1.750	3.973	-2.41220	.14680	.14070	-.02410	.15520	.13080	.03210	.00050	.00100	1.04290
1.750	6.047	-2.41220	.23010	.15300	-.03620	.24420	.12790	.03070	.00130	.00080	1.50400
1.750	8.117	-2.41260	.30930	.17170	-.04590	.33100	.12620	.03130	.00170	.00090	1.80480
1.750	10.181	-2.41100	.38650	.19620	-.05260	.41510	.12480	.03120	.00170	.00110	1.96930
1.750	12.226	-2.41040	.46220	.22530	-.05750	.49950	.12300	.03180	.00200	.00130	2.06210
1.750	14.311	-2.40890	.53370	.25850	-.05100	.58110	.11870	.03260	.00220	.00170	2.06370
1.750	16.455	-2.40420	.60840	.30000	-.05390	.66850	.11530	.03210	.00320	.00180	1.97020
1.750	18.550	-2.40390	.68320	.34690	-.06850	.75800	.11140	.02930	.00570	.00170	1.89480
1.750	20.579	-2.39820	.75700	.39930	-.07040	.84910	.10790	.02730	.00800	.00180	1.71500
1.750	24.732	-2.37830	.89500	.52570	-.07820	1.03380	.10260	.02740	.00920	.00190	1.55630
1.750	25.760	-2.36930	.92750	.56500	-.07800	1.07870	.10120	.02380	.00920	.00190	1.55630
1.750	GRADIENT	-.00012	.04111	.00111	-.00626	.04353	-.00147	-.00054	.00022	.00002	.29365

(RE7004) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XJ
LREF = 474.8000 IN. YMRP = .0000 IN. YJ
BREF = 336.6800 IN. ZMRP = 375.0000 IN. ZJ
SCALE = .0300

RUN NO. 3147 0 RV/L = 3.06 GRADIENT INTERVAL = -5.08/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.935	-.019	-2.92380	-.02180	.12950	-.00660	-.02180	.12950	.03890	-.00090	.00120	-.16800
1.936	1.965	-2.92310	.05100	.12840	-.01570	.05530	.12680	.03750	.00060	.00100	-.32670
1.936	4.034	-2.92240	.12660	.13280	-.02500	.13560	.12350	.03500	.00040	.00080	.95370
1.936	6.032	-2.92210	.19530	.14250	-.03220	.21030	.12090	.03190	.00140	.00180	1.57710
1.935	8.159	-2.92170	.26710	.15820	-.03720	.28650	.11870	.03310	.00160	.00190	1.68650
1.935	10.216	-2.92140	.33510	.17880	-.04310	.36150	.11650	.03200	.00130	.00120	1.87420
1.936	12.257	-2.92230	.42630	.20460	-.04320	.44050	.11370	.03200	.00100	.00130	1.98610
1.936	14.335	-2.92300	.47450	.23540	-.04620	.51810	.11060	.03360	.00090	.00150	2.01580
1.936	16.478	-2.92110	.54670	.27350	-.04960	.60180	.10720	.03250	.00040	.00160	1.99350
1.935	18.584	-2.91870	.61750	.31710	-.05210	.68630	.10400	.03250	.00040	.00150	1.94750
1.936	20.586	-2.91960	.68630	.36650	-.05540	.77130	.10180	.02840	.00070	.00160	1.87240
1.936	22.563	-2.91630	.75290	.42060	-.05860	.85890	.09800	.02800	.00070	.00160	1.79320
1.936	24.727	-2.91300	.81970	.48140	-.06240	.94590	.09440	.02910	.00070	.00150	1.70270
1.935	25.753	-2.90950	.85010	.51350	-.06290	.98860	.09290	.02960	.00070	.00150	1.65630
GRADIENT		.00010	.03561	.00080	-.00454	.03683	-.00148	-.00296	.00032	-.00007	.27641

RUN NO. 3177 0 RV/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
2.250	-.033	-3.07790	-.02860	.12170	-.01192	-.02860	.12170	.04940	-.00360	.00150	-.23460
2.250	1.887	-3.07710	.03570	.12030	-.01780	.03960	.11900	.04570	-.00260	.00130	-.29650
2.250	3.943	-3.07600	.09870	.12370	-.02336	.10790	.11650	.04270	-.00180	.00140	.90580
2.250	5.996	-3.07470	.16470	.13170	-.02790	.17760	.11370	.03950	-.00070	.00120	1.25080
2.250	8.053	-3.07480	.22520	.14400	-.02980	.24320	.11110	.03920	-.00040	.00150	1.55330
2.250	10.105	-3.07160	.29360	.16250	-.03150	.31760	.10950	.03770	-.00010	.00180	1.80630
2.250	12.137	-3.07140	.35920	.18570	-.03370	.39220	.10510	.03810	.00050	.00200	1.93320
2.250	14.213	-3.07080	.42570	.21410	-.03660	.46620	.10300	.03850	.00120	.00220	1.99350
2.250	16.340	-3.06930	.49430	.24900	-.03910	.54150	.10070	.03840	.00070	.00200	1.97340
2.250	18.420	-3.06650	.55980	.28920	-.04190	.62150	.09780	.03400	.00040	.00210	1.93220
2.250	20.435	-3.06440	.62570	.33460	-.04530	.70320	.09510	.03280	.00040	.00230	1.87000
2.250	22.506	-3.05750	.69110	.38650	-.04860	.78600	.09160	.03280	.00040	.00240	1.78850
2.250	24.563	-3.05420	.75710	.44310	-.05320	.87280	.08830	.03330	.00040	.00240	1.66240
2.250	25.583	-3.05240	.78770	.47390	-.05480	.91510	.08730	.03270	.00040	.00220	1.56240
GRADIENT		.00047	.03179	.00050	-.00282	.03387	-.00126	-.00166	.00045	-.00002	.25773

TABULATED DATA - 0A16L (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A16L ORBITER + RAKES.

(RETURNS) (02 AUG 76)

REFERENCE DATA

SPEF = 2000.0000 SQ.FT. XPRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YPRP = .0000 IN. YQ
BREF = 936.6800 IN. ZPRP = 375.0000 IN. ZQ
SCALE = .0300

BETA =
ALLRON =

-2.000 ELEVON = -0.00
.000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 4424 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CO	CLM	CN	CA	CY	CYN	CBL	L/D
2.499	.110	-1.94200	-.04040	.11560	-.01630	-.04020	.11580	.04040	-.00080	.00120	-.35030
2.499	2.147	-1.94050	.01589	.11360	-.01940	.02080	.11290	.03560	-.00030	.00100	-.13890
2.499	4.174	-1.95070	.07100	.11500	-.02210	.07920	.10950	.03480	.00070	.00109	.61740
2.499	6.223	-1.95890	.12990	.12080	-.02420	.14220	.10500	.03350	.00160	.00080	1.07960
2.499	8.251	-1.97340	.18890	.13180	-.02490	.20580	.10330	.03300	.00210	.00120	1.47330
2.499	10.293	-1.97990	.25390	.14910	-.02670	.27630	.10130	.03200	.00240	.00160	1.70240
2.499	12.336	-1.99220	.31930	.17210	-.02860	.34870	.09980	.03040	.00250	.00200	1.85530
2.499	14.392	-1.99470	.38730	.20020	-.03060	.42490	.09770	.02720	.00320	.00230	1.93440
2.499	16.419	-1.98390	.45270	.23320	-.03350	.50020	.09570	.02200	.00450	.00220	1.90910
2.499	18.432	-1.98320	.51730	.27090	-.03690	.57650	.09290	.01670	.00510	.00230	1.84780
2.499	20.523	-1.98100	.58000	.31390	-.04020	.65320	.08960	.01020	.00600	.00250	1.77550
2.499	22.559	-1.97580	.64340	.36240	-.04560	.73320	.08780	.00250	.00640	.00250	1.69180
2.499	24.593	-1.97050	.70480	.41660	-.04740	.81430	.08550	.00250	.00640	.00250	1.64620
2.499	25.629	-1.96640	.73460	.44620	-.04740	.85530	.08460	.00250	.00640	.00250	1.64620
2.499	26.661	-.08460	.02741	-.00012	-.00143	.02938	-.00143	-.00138	.00037	-.00039	-.23810

GRADIENT

RUN NO. 439/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CO	CLM	CN	CA	CY	CYN	CBL	L/D
3.040	.039	-1.86330	-.04530	.10400	-.02120	-.04530	.10400	.03870	-.00030	.00080	-.43600
3.040	2.071	-1.87300	.08070	.10090	-.02110	.00430	.10880	.03560	.00008	.00110	.00590
3.040	4.096	-1.88260	.04660	.10020	-.02020	.05560	.09650	.03450	.00080	.00120	.48440
3.040	6.126	-1.89100	.10220	.10450	-.02010	.11280	.09300	.03460	.00130	.00160	.97800
3.040	8.151	-1.89630	.15340	.11330	-.02000	.16790	.09040	.03240	.00170	.00170	1.35410
3.040	10.189	-1.89910	.20800	.12770	-.02430	.22730	.08890	.02880	.00170	.00210	1.62690
3.040	12.216	-1.90430	.26640	.14720	-.02160	.29150	.08750	.02620	.00280	.00220	1.90150
3.040	14.261	-1.90550	.32760	.17230	-.02180	.36000	.08630	.02570	.00280	.00280	1.92250
3.040	16.290	-1.90580	.38810	.20190	-.02340	.42910	.08490	.02500	.00350	.00290	1.90530
3.040	18.331	-1.90290	.44900	.23540	-.02500	.49830	.08250	.02470	.00380	.00290	1.85190
3.040	20.382	-1.89560	.50950	.27510	-.02670	.56750	.07970	.02400	.00460	.00270	1.77210
3.040	22.429	-1.88550	.56990	.32100	-.02820	.63680	.07600	.02290	.00520	.00250	1.69120
3.040	24.479	-1.88370	.62750	.37100	-.03160	.70600	.07330	.02220	.00560	.00240	1.64750
3.040	25.468	-1.88610	.65490	.39750	-.03280	.76220	.07180	.02200	.00560	.00240	1.64750
3.040	26.400	-.00471	.02312	-.00094	.00085	.02487	-.00185	-.00104	.00027	.00010	-.22690

GRADIENT

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEC = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRLON = .000 EDFLAP = -7.170

RUN NO. 4327 0 RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	-1.780	-1.98260	-0.0460	.09750	-.02280	-.05190	.09740	.04240	.00050	.00040	-.52860
3.499	1.873	-1.98078	-0.0450	.09300	-.02160	-.00740	.09330	.03650	.00090	.00090	-.11280
3.499	3.873	-2.08030	.05380	.09150	-.01990	.04080	.08900	.03580	.00120	.00120	.37060
3.499	5.897	-2.00580	.08150	.09460	-.01920	.09080	.08570	.03150	.00100	.00100	.86160
3.499	7.941	-2.01130	.13060	.10290	-.01790	.14360	.08340	.02910	.00130	.00130	1.27560
3.499	9.942	-2.01790	.18110	.11480	-.01730	.19820	.08180	.03250	.00170	.00170	1.57740
3.499	11.971	-2.02110	.23560	.13180	-.01660	.25780	.08010	.03130	.00240	.00240	1.78720
3.499	13.988	-2.02160	.29550	.15530	-.01760	.32430	.07920	.02810	.00250	.00250	1.90250
3.499	16.031	-2.02120	.35280	.18250	-.01780	.38950	.07800	.02700	.00270	.00270	1.93610
3.499	18.083	-2.01960	.41090	.21470	-.01920	.45730	.07650	.02700	.00310	.00310	1.91420
3.499	20.096	-2.01640	.46790	.25140	-.02020	.52580	.07530	.02590	.00340	.00340	1.85130
3.499	22.126	-2.01280	.52570	.29360	-.02140	.59760	.07380	.02610	.00380	.00380	1.79080
3.499	24.164	-2.00710	.58410	.34230	-.02330	.67300	.07320	.02500	.00470	.00470	1.70460
3.499	26.182	-2.00100	.64200	.38830	-.02400	.71050	.07290	.02000	.00490	.00490	1.66170
3.499	28.199	-0.00437	.69140	-.00148	.00071	.02267	-.00207	-.00161	.0017	.00220	.23177

ORIGINAL PAGE IS
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TABULATED DATA - 0A161 (ARC 11-97-87-934)
ARC 11-97-87-934 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. X0
LREF = 474.8600 IN. YMRP = .0000 IN. Y0
BREF = 938.6800 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

BETA = .000 ELEVON = .000
AILRON = .000 SDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYL	L/D
.596	.077	.18030	-.06210	.05380	.03150	-.06210	.05370	.00330	-.00010	-1.15880
.596	2.128	.20500	.03090	.05300	.03190	.03280	.05190	-.00040	-.00030	.58250
.597	4.186	.20500	.12620	.05520	.03140	.12980	.04590	.00090	-.00030	2.28370
.596	6.255	.21280	.22690	.06180	.02930	.22930	.03670	-.00010	-.00020	3.55970
.596	8.352	.21850	.33560	.07330	.02550	.34270	.02380	-.00010	-.00050	4.57810
.596	10.447	.21680	.44400	.09110	.02290	.45310	.00910	-.00010	-.00040	4.87480
.596	12.543	.21660	.54990	.11770	.02380	.56240	-.00450	.00040	-.00030	4.57190
.596	14.659	.22750	.64490	.16430	.02330	.66540	-.00420	.00410	-.00050	3.92520
.597	16.776	.22120	.73850	.22120	.02120	.77090	-.00140	.00600	-.00020	3.33840
.597	18.890	.21960	.83500	.29010	.01460	.88400	.00410	.00560	-.00030	2.87550
.597	21.003	.20640	.93820	.36570	.00820	1.00690	.00520	.00930	-.00010	2.56530
.599	23.112	.20610	1.02390	.44060	.01320	1.11470	.00330	.01020	-.00030	2.32380
.597	25.183	.21330	1.06620	.50250	.03270	1.17860	.00100	.00980	-.00040	2.12190
	GRADIENT	.00601	.04583	.00039	-.00002	.04673	-.00190	-.00058	-.00005	.83777

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYL	L/D
.900	.047	.19640	-.06060	.07260	.04380	-.06050	.07260	.00390	-.00020	-.83450
.899	2.145	.21110	.05820	.07460	.03410	.06100	.07230	-.00070	-.00000	.78070
.901	4.251	.21320	.17390	.08580	.02510	.17970	.07270	-.00038	-.00010	2.22680
.899	6.354	.21700	.27040	.10160	.02360	.28000	.07100	.00340	-.00050	2.66230
.897	8.459	.21800	.36290	.12360	.02130	.37110	.06880	.00200	-.00080	2.93530
.898	10.597	.21460	.45550	.15640	.01890	.47650	.07000	.00570	-.00110	2.91230
.899	12.720	.22140	.54360	.19530	.01620	.57330	.07090	.00000	-.00040	2.78280
.900	14.859	.22340	.64550	.24780	.00790	.68750	.07390	.00450	-.00050	2.50450
.897	17.013	.21610	.74100	.30420	.00500	.79760	.07410	.00570	-.00170	2.43600
.897	19.157	.21760	.83260	.37030	.00860	.90800	.07660	.00290	-.00180	2.24860
.895	21.283	.20940	.89580	.42780	.02670	.98070	.07710	.00360	-.00070	2.07430
.897	23.397	.20450	.91950	.48610	.05260	1.03690	.08100	.01140	-.00050	1.89180
.895	25.438	.21610	.88250	.51740	.11260	1.01920	.08810	.00400	-.00050	1.70580
	GRADIENT	.00399	.05578	.00314	-.00445	.05714	.00006	.00083	.00002	.68062

TABULATED DATA - 0A161 (ARC 11-97-87-09*)
ARC 11-97-87-09* 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.0000 IN. YMRP = 0.0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
AILRON =

ELEVON = .000
BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 16/ 0 RV/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.199	.044	.17400	-.02550	.14620	.03470	-.02540	.14620	.00310	-.00010	-.00010	-.17430
1.204	2.147	.17400	.09500	.14940	.08660	.10050	.14580	.01740	.00120	.00020	.83370
1.209	4.270	.17400	.21580	.16190	-.01330	.26730	.14540	-.00820	-.00150	-.00030	1.33290
1.196	6.389	.21098	.33110	.18100	-.03170	.34910	.14300	.00590	-.00030	-.00050	1.82940
1.198	8.551	.24098	.44030	.20690	-.04390	.46820	.13910	.00430	-.00070	-.00080	2.12830
1.197	10.721	.22420	.54700	.24120	-.05030	.58230	.13520	.00260	-.00040	-.00110	2.26840
1.196	12.879	.21810	.65400	.28700	-.05830	.70150	.13400	.00320	-.00050	.00050	2.27910
1.196	15.042	.21290	.75170	.34310	-.06610	.81430	.13620	.00660	-.00070	.00050	2.19110
1.198	17.205	.20840	.84860	.40660	-.07540	.93100	.13740	.00730	-.00130	-.00020	2.08690
1.191	19.364	.20840	.94150	.47420	-.08130	1.04550	.13530	.00900	-.00090	-.00010	1.98540
1.190	21.506	.20530	1.00660	.53770	-.07580	1.13670	.13130	.00290	-.00080	.00010	1.87190
1.193	23.630	.20800	1.06400	.60320	-.06750	1.21660	.12610	-.00180	.00030	.00020	1.75400
1.189	25.739	.20610	1.10810	.67020	-.05420	1.28920	.12250	.00630	-.00070	.00100	1.63330
	GRADIENT	.01271	.05710	.00372	-.01136	.05980	-.00019	-.00269	-.00036	-.00006	.35663

RUN NO. 12/ 0 RV/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.399	.023	.21940	-.00850	.14580	.01610	-.00850	.14500	.01500	-.00190	-.00030	-.05820
1.401	2.114	.23550	.09050	.14550	-.00320	.09590	.14300	-.01520	-.00210	-.00050	.61830
1.399	4.216	.18480	.19480	.15560	-.02110	.20570	.14080	.01450	.00060	-.00010	1.25230
1.396	6.341	.20820	.29770	.17220	-.03400	.31490	.13820	.00780	.00000	.00000	1.72930
1.395	8.495	.22180	.39770	.19650	-.05010	.42240	.13650	.00460	-.00030	.00000	2.02460
1.394	10.652	.22160	.49560	.22940	-.06280	.53050	.13370	.00480	-.00050	-.00070	2.16480
1.393	12.797	.23050	.59760	.27210	-.07610	.64300	.13300	.00430	-.00140	-.00020	2.19620
1.395	14.956	.22300	.68000	.31980	-.08400	.74920	.13090	.00400	-.00070	.00020	2.15760
1.395	17.115	.20380	.77820	.37370	-.09250	.85370	.12810	.01040	-.00020	.00050	2.09250
1.392	19.270	.19820	.85770	.43330	-.09500	.95270	.12620	.01370	.00010	.00050	1.97930
1.391	21.424	.22280	.93050	.49700	-.09180	1.04770	.12260	.00760	-.00220	.00000	1.87230
1.381	23.562	.20640	.99810	.56310	-.08360	1.14080	.11910	.00360	-.00130	-.00010	1.76610
1.381	25.696	.20960	1.05870	.63740	-.06840	1.23830	.11540	.00310	-.00100	.00020	1.65990
1.386	GRADIENT	-.00827	.04852	.00253	-.00887	.05109	-.00100	.00704	.00060	.00035	.31281

ORIGINAL PAGE IS
OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

IRE7083 (02 AUG 76)

ARC 11-97-87-894 0A161 ORBITER + RAKES

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0600 IN. Z0
 SCALE = .0300

BETA = .000
 AILRON = -7.170

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.555	.037	-.52700	-.01790	.13880	.01030	-.01780	.13880	.00060	.00050	.00040	-.12880
1.556	2.035	-.53090	.07370	.13890	-.00610	.07850	.13620	.00120	.00030	.00010	-.53050
1.556	4.117	-.53140	.16840	.14620	-.02230	.17850	.13380	.00160	.00030	.00030	1.15150
1.556	6.192	-.53080	.26250	.16050	-.03690	.27830	.13130	.00170	.00020	.00020	1.63340
1.556	8.266	-.53130	.36310	.18350	-.05830	.37580	.12890	.00250	.00040	.00020	1.98420
1.556	10.334	-.53060	.43480	.21060	-.05840	.46560	.12920	.00320	.00040	.00010	2.06480
1.556	12.392	-.52880	.51460	.24200	-.06470	.55450	.12600	.00330	.00040	.00040	2.12540
1.556	14.469	-.53470	.59730	.28200	-.07240	.64880	.12380	.00500	.00050	.00050	2.11840
1.556	16.623	-.53340	.68460	.33030	-.07840	.75050	.12070	.00690	.00040	.00030	2.07240
1.556	18.720	-.53090	.76320	.38330	-.08460	.84590	.11810	.00790	.00040	.00040	1.99100
1.556	20.757	-.52790	.84080	.44070	-.08800	.94240	.11410	.00860	.00040	.00040	1.90480
1.556	24.920	-.51890	.98100	.57690	-.09020	1.13280	.10930	.00810	.00070	.00040	1.70050
1.556	25.945	-.51760	1.06690	.61060	-.08710	1.17260	.10850	.00960	.00060	.00040	1.64910
1.556	GRADIENT	-.00107	.04566	.00183	-.00799	.04811	-.00123	.00027	.00005	.00002	.31370

RUN NO. 303/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	-.087	-.35100	-.02030	.13520	.00240	-.02050	.13520	.00160	.00070	.00010	-.15910
1.750	1.917	-.36270	.06390	.13450	-.01080	.06840	.13230	.00260	.00070	.00020	-.47520
1.750	3.989	-.36290	.14890	.14030	-.02320	.15830	.12950	.00290	.00070	.00020	1.06140
1.750	6.062	-.36260	.23310	.15320	-.03540	.24790	.12780	.00320	.00080	.00010	1.52100
1.750	8.123	-.36240	.30930	.17280	-.04470	.33070	.12740	.00360	.00070	.00010	1.78970
1.750	10.188	-.36110	.38850	.19820	-.05270	.41750	.12640	.00350	.00070	.00020	1.98840
1.750	12.231	-.35030	.46360	.22650	-.05770	.50110	.12310	.00500	.00080	.00020	2.04710
1.750	14.313	-.35810	.53810	.25970	-.06050	.58950	.11850	.00530	.00090	.00020	2.07220
1.750	16.464	-.35400	.61510	.30220	-.06290	.67550	.11540	.00440	.00100	.00020	2.03570
1.750	18.557	-.35160	.68970	.34830	-.06570	.76500	.11160	.00400	.00100	.00030	1.97460
1.750	20.583	-.34880	.76400	.40290	-.07010	.85690	.10850	.00560	.00110	.00030	1.89620
1.750	24.740	-.34040	.90330	.53070	-.07770	1.04250	.10390	.00660	.00090	.00040	1.70220
1.750	25.765	-.33730	.93670	.56580	-.07960	1.08860	.10290	.00590	.00090	.00040	1.65370
1.750	GRADIENT	-.00046	.04151	.00126	-.00628	.04386	-.00137	.00032	.00000	.00002	.28712

RUN NO. 308/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER + RAKES

(RE7085) (02 AUG 76)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 996.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 3134 Q RNAL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.996	-.019	-.87570	-.02060	.12880	-.00800	-.02060	.12880	.00560	-.00120	.00040	-.15980
1.996	1.966	-.87670	.05130	.12750	-.01510	.05570	.12570	.00630	-.00130	.00030	.40250
1.996	4.033	-.87800	.12350	.13180	-.02370	.13240	.13280	.00690	-.00110	.00030	.93710
1.996	6.093	-.87790	.19730	.14170	-.03220	.21120	.11990	.00670	-.00080	.00030	1.39250
1.996	8.153	-.87770	.26580	.15780	-.03690	.28560	.11850	.00720	-.00080	.00030	1.68400
1.996	10.211	-.87760	.33430	.17330	-.04020	.35880	.11720	.00820	-.00060	.00030	1.86500
1.996	12.254	-.87470	.40480	.20410	-.04280	.43890	.11550	.00720	-.00060	.00040	1.98290
1.996	14.335	-.87330	.47720	.23580	-.04620	.52070	.11030	.00620	-.00070	.00040	2.02348
1.996	16.477	-.87850	.55210	.27510	-.04990	.60750	.10720	.00780	-.00040	.00050	2.07359
1.996	18.566	-.86650	.62390	.31920	-.05220	.69300	.10390	.00890	-.00020	.00040	1.99460
1.996	20.590	-.85540	.69210	.36780	-.05520	.77720	.09760	.00870	.00010	.00040	1.88180
1.996	22.657	-.86160	.75980	.42320	-.05820	.86420	.09760	.01000	.00040	.00050	1.79560
1.996	24.727	-.85810	.82790	.48570	-.06410	.95518	.09490	.01000	.00040	.00050	1.70450
1.996	25.753	-.85530	.89860	.54750	-.06620	.99830	.09340	.00990	.00040	.00050	1.65780
1.996	GRADIENT	-.00052	.03596	.00075	-.00437	.03775	-.00148	.00032	.00803	-.00002	.27063

RUN NO. 318/ Q RNAL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.250	-.086	-1.03420	-.02790	.12210	-.01073	-.02810	.12210	.01300	-.00140	.00040	-.22870
2.250	1.899	-1.03020	.03640	.12150	-.01690	.04040	.12080	.01180	-.00150	.00040	.29970
2.250	3.953	-1.03160	.09930	.12370	-.02250	.10760	.11650	.01270	-.00120	.00050	.60350
2.250	6.065	-1.03050	.16460	.13080	-.02778	.17730	.11280	.01070	-.00070	.00040	1.25840
2.250	8.056	-1.02910	.22700	.14390	-.02930	.24490	.11060	.01030	-.00080	.00050	1.57750
2.250	10.108	-1.02810	.29150	.16230	-.03070	.31550	.10860	.01090	-.00080	.00050	1.79570
2.250	12.143	-1.02740	.36130	.18570	-.03340	.39230	.10560	.01230	-.00070	.00070	1.94543
2.250	14.213	-1.02570	.42920	.21480	-.03840	.46890	.10290	.01280	-.00060	.00080	1.98630
2.250	16.348	-1.02420	.50000	.25170	-.03940	.55060	.09810	.01310	-.00040	.00070	1.93569
2.250	18.426	-1.02220	.56630	.29210	-.04240	.62960	.09510	.01200	.00070	.00070	1.87480
2.250	20.441	-1.01700	.63230	.33730	-.04470	.71080	.09220	.01260	.00120	.00070	1.78650
2.250	22.512	-1.01480	.69910	.38950	-.04990	.79500	.08950	.01180	.00140	.00060	1.65120
2.250	24.564	-1.01070	.76310	.44720	-.05250	.87960	.08630	.01180	.00150	.00060	1.55233
2.250	25.584	-1.00770	.79440	.47820	-.05430	.92310	.08370	.00007	.00005	.00062	
2.250	GRADIENT	-.00010	.03149	.00040	-.00292	.03359	-.00136	.00007			

(RE7005) (02 AUG 78)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 OREITER + RAKES

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 443/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.499	.114	.04560	.04100	.11500	-.01920	-.04080	.11510	.09640	-.00060	.00010	.25550
2.499	2.147	.04528	.01550	.11360	-.01910	.01980	.11290	.09580	-.00050	.00010	.13570
2.499	4.183	.04430	.07040	.11600	-.02150	.07870	.11060	.09570	-.00070	.00030	.60700
2.499	6.218	.04350	.12730	.12010	-.02370	.13960	.10560	.09500	-.00040	.00020	1.06050
2.499	8.253	.04270	.18760	.13110	-.02420	.20450	.10280	.09450	-.00050	.00030	1.43130
2.499	10.293	.04160	.24950	.14750	-.02530	.27190	.10050	.08440	-.00050	.00030	1.69220
2.499	12.343	.03960	.31350	.16920	-.02720	.34240	.09810	.08440	-.00050	.00030	1.85540
2.499	14.376	.03600	.37800	.19620	-.02940	.41490	.09620	.09580	-.00050	.00030	1.98710
2.499	16.410	.03670	.44320	.22860	-.03210	.48970	.09410	.09440	-.00040	.00050	1.90760
2.499	18.456	.03420	.50870	.26560	-.03460	.56470	.09160	.09440	-.00030	.00050	1.84900
2.499	20.499	.03250	.57020	.30840	-.03680	.64210	.08920	.09610	-.00050	.00050	1.77370
2.499	22.548	.03080	.63430	.35760	-.04070	.72300	.08700	.09820	-.00050	.00050	1.68820
2.499	24.593	.02870	.69700	.41290	-.04380	.80560	.08520	.09890	-.00060	.00070	1.64300
2.499	25.623	.02780	.72720	.44260	-.04580	.84700	.08460	.09570	-.00060	.00070	1.64300
2.499	GRADIENT	.00027	.02737	.00025	-.00155	.02937	-.00111	-.00017	-.00002	.00005	.23577

RUN NO. 438/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.040	.060	.14840	-.04870	.10270	-.02110	-.04860	.10270	.00270	-.00020	.00000	.47450
3.040	2.089	.14750	-.00400	.09980	-.02040	-.00030	.10000	.00270	-.00020	.00000	.03960
3.040	4.141	.14700	.04410	.10020	-.01950	.05120	.09680	.00230	-.00030	.00000	.14390
3.040	6.135	.14650	.09340	.10350	-.01840	.10590	.09270	.00070	-.00040	.00020	.62160
3.040	8.168	.14540	.14930	.11240	-.01930	.16370	.09000	.00130	-.00040	.00020	1.22220
3.040	10.203	.14390	.20540	.12590	-.01950	.22440	.08750	.00610	-.00020	.00030	1.63140
3.040	12.242	.14070	.26250	.14500	-.01990	.28730	.08610	.00500	-.00030	.00040	1.80970
3.040	14.280	.13990	.32000	.16950	-.02110	.35390	.08480	.00410	-.00040	.00050	1.90020
3.040	16.344	.13840	.38240	.19820	-.02220	.42260	.08290	.00420	-.00050	.00050	1.92950
3.040	18.394	.13460	.43940	.23110	-.02350	.48880	.08110	.00760	-.00020	.00050	1.80720
3.040	20.432	.13000	.50030	.27090	-.02560	.55340	.07960	.00520	-.00050	.00050	1.74460
3.040	22.464	.13250	.56080	.31560	-.02760	.63820	.07810	.00310	-.00080	.00050	1.68920
3.040	24.499	.13190	.62080	.36750	-.03080	.71730	.07700	.00450	-.00060	.00050	1.64420
3.040	25.581	.13000	.67880	.39460	-.03200	.75550	.07710	.00450	-.00060	.00050	1.64420
3.040	GRADIENT	.00034	.02274	.00061	-.00039	.02446	-.00145	-.00010	-.00002	.00005	.22411

(RE7005) (02 AUG 76)

TABULATED DATA - 0A15N (ARC 11-97-87-094)
ARC 11-97-87-084 0A16T ORBITER + RAKES

PARAMETRIC DATA

REFERENCE DATA

BETA = .000 ELEVON = .000
ATLON = .000 BDFLAP = -7.170

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0800 IN. Y0
BREF = 936.6808 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

RUN NO. 433/ 0 RVL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	1.73	.10250	-.05090	.09550	-.05120	-.05120	.09540	.00350	.00010	.00000	-.53280
3.499	1.854	.10128	-.01090	.09210	-.02080	-.00790	.09240	.00430	.00010	.00010	-.11840
3.499	3.898	.09980	.03480	.09110	-.01890	.04090	.08850	.00540	.00020	.00020	.35190
3.499	5.895	.09990	.03080	.09380	-.01810	.09000	.08500	.00350	.00010	.00020	.65150
3.499	7.954	.09710	.13000	.10140	-.01690	.14280	.08240	.00640	.00020	.00020	1.26210
3.499	9.951	.09330	.18000	.11320	-.01680	.19580	.08040	.00750	.00030	.00030	1.58240
3.499	11.942	.09370	.23210	.12980	-.01660	.25390	.07890	.00430	.00000	.00020	1.78870
3.499	13.998	.09320	.28620	.15450	-.01740	.31630	.07730	.00310	.00030	.00020	1.90200
3.499	16.028	.09300	.34480	.17840	-.01800	.38070	.07620	.00380	.00010	.00010	1.93310
3.499	18.099	.09060	.40008	.20960	-.01840	.44530	.07530	.00550	.00010	.00010	1.85840
3.499	20.101	.08710	.45830	.24660	-.01900	.51510	.07410	.00850	.00020	.00000	1.75000
3.499	22.129	.08588	.51700	.28990	-.02020	.58780	.07281	.03560	.00000	.00000	1.70790
3.499	24.165	.08300	.57690	.33790	-.02160	.66470	.07217	.00540	.00000	.00000	1.65810
3.499	26.193	.08390	.63558	.38360	-.02210	.70270	.07147	.00500	.00020	.00010	1.60310
3.499	GRADIENT	-.00055	.02106	-.00100	.00079	.02264	-.00170	.00247	.00002	.00005	.22492

TABULATED DATA - OAL61 (ARC 11-97-87-094)
 ARC 11-97-87-094 OAL61 ORBITER + RAKES

(RET006) (02 AUG 78)

REFERENCE DATA

SPEF = 2890.0000 SQ.FT. XMRP = 1075.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0800 IN. Y0
 SPEF = 936.6800 IN. ZMRP = 373.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .080
 AILRON = .000 BOFLAP = -7.170

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
598	.093	2.26100	.06020	.05310	.02990	.06020	.05320	-.03670	.00230	-.00150	-1.13390
597	2.139	2.28520	.03230	.05320	.03010	.03430	.06200	-.03330	.00260	-.06240	.60750
597	4.199	2.30270	.12740	.05570	.02960	.13120	.04620	-.03430	.00210	-.00298	2.28900
597	6.281	2.30960	.22940	.06210	.02770	.23480	.03660	-.03270	.00210	-.00320	3.69520
597	8.380	2.31120	.33860	.07330	.02430	.34570	.02350	-.03180	.00250	-.00350	4.59760
597	10.463	2.32480	.44800	.09210	.02400	.45730	.00910	-.03310	.00250	-.00490	4.86380
597	12.630	2.33820	.55440	.11910	.02150	.56700	.00500	-.03170	.00350	-.00498	4.65390
597	14.765	2.29510	.64760	.16710	.02100	.66860	-.00340	-.02940	.00180	-.00520	3.87460
598	16.902	2.29540	.74860	.22610	.01950	.78260	-.00130	-.02820	.00190	-.00620	3.39000
597	19.016	2.28720	.84970	.29560	.01130	.89960	.00260	-.02840	.00230	-.00650	2.87450
597	21.104	2.28070	.94780	.36950	.00580	1.01730	.00350	-.02890	.00240	-.00700	2.56510
597	23.191	2.28440	1.04580	.44860	.00890	1.13730	.00080	-.02570	.00160	-.00600	2.33100
595	25.244	2.31300	1.08330	.51000	.02720	1.19730	-.00070	-.02570	.00036	-.00450	2.12420
597	GRADIENT	.01016	.04571	.00063	-.00007	.04653	-.0817.	.00034	-.00005	-.00034	.63382

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
888	.066	2.27070	-.06240	.07120	.04298	-.06240	.07134	-.03690	.00400	.00000	-.87640
901	2.161	2.29630	.05100	.07470	.03200	.06360	.07230	-.03810	.00400	-.00070	.81590
901	4.259	2.31460	.17520	.08590	.02370	.18110	.07270	-.03920	.08350	-.00160	2.03940
901	6.390	2.32300	.27510	.10290	.02060	.28480	.07170	-.03850	.00240	-.00270	2.67400
901	8.499	2.31770	.36900	.12540	.01830	.38350	.06950	-.0410	.00220	-.00190	2.94180
903	10.620	2.32990	.44880	.15530	.01920	.46980	.06990	-.03000	.00060	-.00200	2.89090
888	12.782	2.31150	.54710	.19670	.01550	.57110	.07080	-.03130	.00160	-.00340	2.78140
901	14.935	2.33270	.64360	.24760	.00910	.68560	.07340	-.03140	.00310	-.00310	2.59680
901	17.121	2.33030	.73980	.30380	.00490	.78550	.07260	-.02120	.00550	-.00360	2.43510
900	19.272	2.32860	.82950	.36440	.01000	.90500	.07490	-.02540	.00900	-.00450	2.24590
897	21.373	2.31540	.88640	.42830	.02780	.98450	.07580	-.02010	.00970	-.00950	2.06970
895	23.439	2.31540	.89760	.47790	.06460	1.01360	.08440	.00250	.01790	-.01170	1.87810
895	25.493	2.32860	.89790	.52150	.10510	.03460	.08430	-.00430	.00190	-.00830	1.72180
	GRADIENT	.01044	.05653	.00350	-.00457	.05793	.00033	.00017	-.00012	-.00038	.69341

(RE7008) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000
AIRLON = .000
ELEVON = .000
BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-08H)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2598.0000 50.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.201	.046	2.27940	-.02580	.14660	.03420	-.02570	.14660	-.02900	.00160	-.00310	-.17600
1.204	2.157	2.27810	.09530	.15030	.00820	.10090	.14660	-.02840	.00150	-.00300	.63430
1.207	4.278	2.31900	.21610	.16180	-.01390	.22750	.14520	-.03470	-.00050	-.00350	1.33560
1.209	6.414	2.32040	.33220	.18130	-.03210	.35640	.14310	-.02800	-.00100	-.00430	1.83210
1.197	8.582	2.30890	.44310	.20820	-.04480	.46920	.13980	-.02010	-.00050	-.00420	2.12800
1.198	10.744	2.30720	.54500	.24100	-.06000	.58040	.13520	-.02290	.00050	-.00320	2.26120
1.196	12.965	2.29030	.64480	.28800	-.07500	.70260	.13420	-.02480	.00040	-.00150	2.27350
1.195	15.093	2.32710	.75990	.34590	-.08630	.82280	.13630	-.02480	.00030	-.00140	2.19400
1.192	17.314	2.33670	.85370	.40980	-.07570	.93700	.13730	-.02280	-.00220	-.00270	2.09250
1.193	19.475	2.32110	.94440	.47630	-.08170	1.04920	.13420	-.01630	-.00430	-.00460	1.87270
1.191	21.599	2.31670	1.00870	.53850	-.07550	1.13610	.12950	-.01780	-.00990	-.00280	1.75370
1.188	23.702	2.32880	1.06610	.60530	-.06300	1.21850	.12610	-.01770	-.00940	-.00230	1.69180
1.192	25.791	2.34860	1.10620	.63970	-.05300	1.28740	.12170	-.01700	-.00050	-.00012	.38714
	GRADIENT	.00936	.05716	.00359	-.01137	.05983	-.00033	-.00064			

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.399	.040	2.28840	-.01020	.14620	.01530	-.01010	.14520	-.03480	.00040	-.00210	-.05960
1.400	2.117	2.25480	.09640	.14730	-.00430	.09580	.14390	-.00610	.00250	-.00240	.61340
1.397	4.235	2.31610	.19570	.15630	-.02170	.20670	.19150	-.02500	-.00040	-.00310	1.25160
1.398	6.368	2.36260	.29860	.17250	-.03780	.31590	.13830	-.04630	-.00340	-.00380	1.73090
1.395	8.524	2.32530	.39980	.19670	-.05080	.42450	.13520	-.02510	-.00120	-.00430	2.05280
1.394	10.689	2.37640	.49990	.23040	-.06420	.53390	.13380	-.02660	-.00150	-.00250	2.16980
1.396	12.845	2.36130	.59700	.27270	-.07590	.64270	.13310	-.02820	-.00200	-.00170	2.16930
1.397	15.073	2.33550	.69780	.31920	-.08400	.74690	.13030	-.02050	-.00250	-.00280	2.07510
1.397	17.225	2.34040	.77900	.37540	-.09140	.85320	.12790	-.01570	-.00510	-.00240	1.97590
1.395	19.385	2.32690	.86220	.43620	-.09520	.95810	.12520	-.01570	-.00920	-.00250	1.87310
1.390	21.523	2.33090	.93580	.49360	-.09220	1.06380	.12140	-.00810	-.00820	-.00280	1.78740
1.388	23.637	2.31900	1.01300	.56650	-.08850	1.14440	.11760	-.00810	-.01140	-.00280	1.68670
1.396	25.746	2.36090	1.06410	.63990	-.08210	1.23880	.11590	-.01570	-.01140	-.00240	1.58680
	GRADIENT	.00809	.04908	.00241	-.00862	.05168	-.00112		-.00019		

ORIGINAL PAGE IS
OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

(RE7806) (02 AUG 75)

REFERENCE DATA

SPEC = 2580.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = 0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = 2.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 302/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.556	0.00	1.52850	-.01660	.14000	.00880	-.01650	.14000	-.03070	-.00120	-.00060	-.11840
1.556	2.035	1.52370	.07550	.14080	-.02760	.08050	.13800	-.03040	-.00030	-.00090	-.53590
1.556	4.118	1.52170	.17110	.14760	-.02290	.18130	.13500	-.02700	-.00830	-.00090	1.15900
1.556	6.189	1.52000	.26310	.16410	-.03770	.27800	.13180	-.02640	-.00100	-.00100	1.53320
1.556	8.263	1.52350	.35370	.18360	-.05100	.37640	.13090	-.02610	-.00100	-.00100	1.92570
1.556	10.330	1.52410	.43620	.21140	-.07980	.46700	.12970	-.02550	-.00100	-.00130	2.06370
1.556	12.377	1.52680	.51560	.24350	-.06590	.55580	.12730	-.02500	-.00120	-.00060	2.11760
1.556	14.454	1.52620	.59750	.28300	-.07320	.64930	.12470	-.02590	-.00140	-.00060	2.05880
1.556	16.511	1.53060	.67890	.32990	-.07990	.74480	.12200	-.02220	-.00240	-.00060	1.98570
1.556	18.708	1.53730	.75760	.38150	-.08420	.84000	.11840	-.02190	-.00410	-.00100	1.90420
1.556	20.744	1.5470	.83650	.43930	-.08780	.93780	.11450	-.01620	-.00530	-.00146	1.82980
1.556	22.901	1.55140	.91380	.52290	-.08940	1.12440	.10960	-.01580	-.00800	-.00140	1.64970
1.556	25.930	1.55060	1.00460	.60890	-.08980	1.16970	.10840	-.01130	-.00860	-.00140	1.3137
1.556	GRADIENT	-.00020	.04603	.00187	-.06777	.04851	-.00123	.00091	-.00037	-.00007	

RUN NO. 309/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.750	-.074	1.70250	-.01730	.13650	.00210	-.01750	.13650	-.03980	-.00130	-.00060	-.12660
1.750	1.919	1.70530	.06530	.13630	-.01060	.06880	.13400	-.03960	-.00190	-.00070	-.47910
1.750	3.990	1.70450	.14950	.14140	-.02300	.15900	.13060	-.02790	-.00240	-.00070	1.09750
1.750	6.061	1.70320	.23450	.15340	-.03490	.24950	.12780	-.02500	-.00290	-.00050	1.52930
1.750	8.125	1.70260	.31230	.17260	-.04480	.33350	.12670	-.02340	-.00320	-.00050	1.80910
1.750	10.183	1.70570	.38980	.19790	-.05150	.41870	.12580	-.02480	-.00330	-.00070	1.98820
1.750	12.232	1.70710	.46580	.22700	-.05640	.50330	.12341	-.02380	-.00360	-.00080	2.06740
1.750	14.316	1.71140	.53970	.26100	-.05990	.58750	.11950	-.02466	-.00420	-.00120	2.03650
1.750	16.458	1.71370	.61330	.30200	-.06330	.67370	.11590	-.02210	-.00420	-.00110	1.97340
1.750	18.550	1.71820	.68740	.34830	-.06620	.76250	.11160	-.02080	-.00540	-.00110	1.89320
1.750	20.579	1.72120	.75950	.40080	-.07020	.85490	.10830	-.01790	-.00750	-.00100	1.70710
1.750	22.729	1.72990	.83930	.45260	-.07760	1.03420	.10230	-.01380	-.00950	-.00120	1.45630
1.750	25.752	1.73400	.92370	.56070	-.07880	1.08100	.10110	-.00990	-.01090	-.00120	1.25132
1.750	GRADIENT	.00049	.04104	.00121	-.00617	.04343	-.00145	.00071	-.00027	-.00002	

TABULATED DATA - 0A161 (ARC 11-97-87-884)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(RE7006) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0330

BETA =
 ALLEON =

2.000 ELEVON = .000
 .000 BDFLAP = -7.970

PARAMETRIC DATA

RUN NO. 3124 0 RM/L = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.996	-.014	1.18260	-.01780	.12900	-.00680	-.01780	.12900	-.02780	-.00070	-.00060	-.13810
1.996	1.975	1.18340	.05340	.12870	-.01570	.05780	.12680	-.02750	-.00130	-.00050	.41530
1.996	4.041	1.18150	.12550	.13240	-.02450	.13560	.12320	-.02440	-.00190	-.00030	.92510
1.996	6.099	1.18080	.19800	.14190	-.03260	.21200	.12000	-.02180	-.00260	-.00030	1.39880
1.996	8.161	1.18130	.26560	.15730	-.03710	.28520	.11800	-.02140	-.00270	-.00030	1.87780
1.996	10.215	1.18260	.33530	.17900	-.04010	.36170	.11570	-.02130	-.00270	-.00030	1.87280
1.996	12.258	1.18390	.40620	.20410	-.04370	.44020	.11320	-.02030	-.00360	-.00060	1.99300
1.996	14.341	1.18510	.48120	.23680	-.04770	.52490	.11020	-.01940	-.00410	-.00060	2.03210
1.996	16.477	1.18800	.55050	.27430	-.05030	.60370	.10590	-.01710	-.00500	-.00060	2.06560
1.996	18.561	1.19080	.61860	.31750	-.05360	.68740	.10380	-.01450	-.00590	-.00060	1.95320
1.996	20.582	1.19600	.68640	.36570	-.05580	.77110	.10110	-.01350	-.00640	-.00060	1.87690
1.996	22.659	1.19760	.75450	.40990	-.05940	.85840	.09720	-.00900	-.00730	-.00060	1.73280
1.996	24.721	1.20490	.82160	.48230	-.06360	.94800	.09440	-.01530	-.00800	-.00060	1.55570
1.996	25.743	1.20640	.85240	.51390	-.06550	.99100	.09260	-.00800	-.00800	-.00060	1.65570
1.996	GRADIENT	-.00032	.03658	.00084	-.00435	.03781	-.00143	.00084	-.00030	.00007	.26959

RUN NO. 3194 0 RM/L = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.250	-.074	1.03080	-.02420	.12210	-.01180	-.02430	.12210	-.02170	-.00030	-.00050	-.19780
2.250	1.899	1.03000	.03710	.12110	-.01730	.04110	.11950	-.02050	-.00010	-.00040	.30630
2.250	3.954	1.02950	.10090	.12430	-.02300	.10920	.11710	-.01990	-.00070	-.00040	.81110
2.250	6.004	1.02960	.16460	.13410	-.02770	.17740	.11320	-.01760	-.00140	-.00030	1.29670
2.250	8.058	1.02980	.22720	.14410	-.02930	.24310	.11080	-.01700	-.00110	-.00050	1.57700
2.250	10.108	1.03070	.29330	.16290	-.03090	.31730	.10890	-.01660	-.00110	-.00050	1.86830
2.250	12.142	1.03180	.36260	.18630	-.03390	.39360	.10590	-.01530	-.00140	-.00050	1.94610
2.250	14.211	1.03070	.43130	.21560	-.03720	.47100	.10310	-.01430	-.00170	-.00050	2.04090
2.250	16.343	1.03560	.49660	.25070	-.03930	.54710	.10090	-.01240	-.00220	-.00050	2.08070
2.250	18.418	1.04090	.56250	.29100	-.04220	.62560	.09810	-.01210	-.00250	-.00050	1.93280
2.250	20.432	1.04260	.62870	.33590	-.04450	.70640	.09530	-.00990	-.00300	-.00050	1.87120
2.250	22.497	1.04720	.69270	.38590	-.04820	.78800	.09240	-.00850	-.00330	-.00050	1.73040
2.250	24.553	1.05250	.75850	.44500	-.05200	.87480	.08960	-.00780	-.00360	-.00050	1.78450
2.250	25.573	1.05590	.78990	.47560	-.05420	.91780	.08810	-.00780	-.00360	-.00050	1.66070
2.250	GRADIENT	-.00032	.03106	.00055	-.00278	.03315	-.00124	.00072	-.00025	.00002	.25008

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 EDIFAP = -7.170

RUN NO. 4444 Q RN/L = 2.00 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
2.499	.111	2.10290	-.04040	.11570	-.01660	-.04020	.11580	-.02920	-.00060	-.00070	-.34830
2.499	2.167	2.09090	.01520	.11360	-.01920	.01950	.11310	-.02560	-.00130	-.00050	.13390
2.499	4.172	2.08090	.07010	.11490	-.02200	.07820	.10950	-.02320	-.00180	-.00050	.09970
2.499	6.217	2.07310	.12780	.12840	-.02410	.14010	.10580	-.02180	-.00240	-.00020	.13610
2.499	8.250	2.06700	.18770	.13130	-.02450	.20460	.10300	-.02150	-.00270	-.00050	.142930
2.499	10.294	2.06310	.25200	.14880	-.02620	.27450	.10100	-.02260	-.00350	-.00110	.159750
2.499	12.348	2.06000	.31710	.17080	-.02830	.34630	.09910	-.02190	-.00340	-.00130	.185560
2.499	14.380	2.05780	.38490	.19900	-.03050	.42230	.09720	-.02040	-.00380	-.00160	.193420
2.499	16.426	2.05740	.45030	.23230	-.03280	.49760	.09550	-.01790	-.00480	-.00150	.193940
2.499	18.467	2.05870	.51530	.26990	-.03530	.57420	.09280	-.01630	-.00560	-.00150	.185020
2.499	20.512	2.06250	.57910	.31300	-.03840	.65210	.09020	-.01470	-.00640	-.00150	.177320
2.499	22.567	2.06640	.64250	.36230	-.04170	.73230	.08900	-.01470	-.00750	-.00150	.169170
2.499	24.602	2.07170	.70470	.41660	-.04550	.81420	.08540	-.01310	-.00760	-.00160	.164710
2.499	25.638	2.07530	.73440	.44590	-.04700	.89500	.08420	-.01148	-.00760	-.00160	.154710
2.499	GRADIENT	-.00542	.02721	-.00020	-.00133	.02916	-.00155	.00148	-.00030	.00025	.23615

RUN NO. 4377 0 RN/L = 1.96 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
3.040	.073	2.23050	-.04490	.10340	-.02150	-.04480	.10350	-.02980	-.00070	-.00050	-.43450
3.040	2.139	2.22000	.00030	.10040	-.02090	.00350	.10040	-.02970	-.00100	-.00050	-.02260
3.040	4.150	2.21070	.04910	.09980	-.02020	.05620	.09590	-.02900	-.00170	-.00070	.43220
3.040	6.168	2.20230	.09900	.10350	-.02010	.10950	.09330	-.02660	-.00200	-.00110	.35690
3.040	8.195	2.19520	.15280	.11260	-.01990	.16730	.08950	-.02370	-.00240	-.00110	.35780
3.040	10.249	2.18950	.20790	.12710	-.02020	.22720	.08610	-.02200	-.00250	-.00150	.16350
3.040	12.257	2.18810	.26440	.14620	-.02090	.28940	.08570	-.02310	-.00320	-.00160	.18080
3.040	14.296	2.18530	.32580	.17120	-.02200	.36000	.08550	-.02270	-.00330	-.00230	.9270
3.040	16.331	2.18550	.38620	.20080	-.02330	.42710	.08410	-.02360	-.00390	-.00240	.92280
3.040	18.412	2.18590	.44830	.23580	-.02520	.49980	.08210	-.02370	-.00440	-.00240	.90150
3.040	20.442	2.18790	.50920	.27500	-.02720	.57310	.08010	-.01670	-.00460	-.00220	.165170
3.040	22.447	2.19390	.56610	.32090	-.02990	.64950	.07930	-.01790	-.00570	-.00200	.177340
3.040	24.490	2.20000	.62870	.37150	-.03230	.72610	.07740	-.01670	-.00570	-.00190	.169250
3.040	25.535	2.20320	.65940	.39250	-.03390	.76290	.07720	-.01570	-.00590	-.00190	.154520
3.040	GRADIENT	-.00485	.02304	-.00088	-.00062	.02476	-.00186	.00044	-.00024	-.00025	.22712

(RE7006) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALLRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8900 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

RUN NO. 434/ 0 RMYL = 2.00 GRADIENT INTERVAL = -5.00 5.00

MACH.	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYM	CBL	L/D
3.499	-1.179	2.25330	-0.05150	.09650	-.02260	-.05180	.08640	-.02940	-.00030	-.00010	-.53330
3.499	1.866	2.24100	-0.02910	.09220	-.02080	-.00610	.09240	-.02820	-.00040	-.00050	-.09670
3.499	3.886	2.23470	.03530	.09050	-.01940	.04140	.08780	-.03010	-.00140	-.00180	-.39050
3.499	5.894	2.22000	.08150	.09340	-.01910	.09870	.08450	-.01750	-.00040	-.00100	-.87340
3.499	7.923	2.21998	.12940	.10090	-.01790	.14210	.08210	-.02720	-.00190	-.00150	1.26240
3.499	9.943	2.21410	.18040	.11330	-.01740	.19720	.08050	-.03510	-.00190	-.00190	1.59170
3.499	11.982	2.20910	.23450	.13670	-.01680	.25650	.07910	-.05140	-.00190	-.00220	1.79440
3.499	14.015	2.20550	.29200	.15350	-.01700	.32050	.07830	-.07100	-.00210	-.00270	1.97120
3.499	16.030	2.20800	.34920	.18060	-.01790	.38550	.07710	-.02130	-.00290	-.00290	1.93370
3.499	18.065	2.20850	.40830	.21270	-.01910	.45410	.07560	-.01880	-.00310	-.00310	1.84480
3.499	20.103	2.20850	.46590	.24990	-.02020	.52340	.07450	-.01300	-.00420	-.00310	1.78050
3.499	22.128	2.21520	.52450	.29300	-.02110	.59520	.07380	-.01600	-.00520	-.00330	1.70680
3.499	24.173	2.22330	.58360	.34190	-.02250	.67250	.07300	-.01900	-.00640	-.00320	1.56260
3.499	25.184	2.22390	.61050	.36720	-.02360	.70870	.07250	-.01320	-.00790	-.00317	1.36724
CRMOIENI		-.09458	.02135	-.00149	.00079	.02893	-.00212	-.00017	-.00027	-.00017	

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(RET007) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 23/ 0 RW/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	1.08	5.34530	.05750	.05110	.02490	-.05740	.05128	-.05740	.00730	-.00300	-1.12460
.597	2.153	5.37120	.03660	.05090	.02500	.03750	.04950	-.09030	.00680	-.00440	-.58940
.597	4.224	5.37910	.13290	.03980	.02410	.13650	.04390	-.05890	.00640	-.00540	2.47010
.598	6.310	5.38020	.23590	.06200	.02240	.24130	.03570	-.08510	.00620	-.00640	3.80490
.597	8.400	5.38740	.33970	.07360	.02160	.34680	.02320	-.08820	.00620	-.00840	4.61460
.597	10.522	5.37820	.44920	.09110	.01890	.45830	.00750	-.08390	.00620	-.01140	4.93240
.595	12.615	5.37300	.56280	.12000	.01660	.57340	-.00510	-.08290	.00630	-.01190	4.59110
.596	14.759	5.35710	.66000	.16900	.01410	.68130	-.00470	-.08120	.00550	-.01180	3.90490
.596	16.856	5.35910	.75610	.22370	.01140	.78950	-.00520	-.08380	.00520	-.01140	3.37220
.599	18.976	5.37010	.84820	.28820	.00900	.89580	-.00330	-.08520	.00710	-.01100	2.91260
.597	21.080	5.38090	.95630	.36530	.00690	1.02370	-.00310	-.09250	.00830	-.01010	2.61920
.597	23.164	5.38500	1.07040	.44450	-.00260	1.14790	-.00770	-.09250	.00930	-.00790	2.38120
.597	25.228	5.40940	1.12530	.51930	.00830	1.23930	-.00990	-.10270	.00840	-.00490	2.16710
			.04626	.00056	-.00819	.04711	-.00178	-.00036	-.00022	-.00090	.87339

RUN NO. 20/ 0 RW/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.899	.080	5.38550	-.05980	.07260	.03520	-.05970	.07260	-.10400	.01010	-.00050	-.82420
.900	2.171	5.39520	.05760	.07280	.02750	.06030	.07860	-.09860	.01020	-.00200	-.79040
.901	4.284	5.40850	.17420	.08360	.01900	.18100	.07040	-.10030	.00900	-.00300	2.08300
.900	6.401	5.41170	.27600	.10140	.01620	.28660	.07800	-.09640	.00700	-.00300	2.72300
.894	8.518	5.40540	.37040	.12300	.01810	.38460	.06680	-.08550	.00600	-.00750	3.01090
.902	10.653	5.40310	.45310	.15530	.01620	.47400	.06890	-.08550	.00330	-.00790	2.91760
.900	12.785	5.40140	.54580	.19440	.01350	.57530	.05880	-.08250	.00300	-.00790	2.80750
.899	14.917	5.42450	.63540	.23900	.00830	.67550	.05740	-.09190	-.00300	-.00790	2.65120
.893	17.074	5.43600	.74450	.30240	.00420	.80060	.06940	-.07530	-.00300	-.00750	2.48230
.896	19.222	5.45000	.82610	.36150	.01120	.89910	.07010	-.07530	-.01410	-.00750	2.28520
.893	21.345	5.45420	.89790	.42340	.02980	.98390	.07010	-.07270	-.01740	-.01160	2.10420
.902	23.471	5.45100	.91330	.48210	.06530	1.02990	.05360	-.05360	-.02390	-.01460	1.89490
.889	25.453	5.45220	.90860	.52260	.03870	1.04520	.03130	-.06030	-.01700	-.01580	1.73910
			.05565	.00262	-.00365	.05781	-.01052	-.06080	-.00026	-.00090	.69128

(RE7087) (02 AUG 76)

PARAMETRIC DATA

 SREF = 2680.0000 SO:FT. XMRP = 1076.6800 IN. XG
 LREF = 479.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .03001

 BETA =
 ANLRON =

 SREF = 2680.0000 SO:FT. XMRP = 1076.6800 IN. XG
 LREF = 479.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .03001

REFERENCE DATA

RUN NO. 147 0 RNAL = 4.26 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.199	.084	5.38440	-.02490	.03200	-.02470	.14640	-.08330	.00530	-.08710	-.17820
1.201	2.182	5.42360	.09580	.00540	.10158	.14590	-.09079	.00300	-.00770	.64050
1.199	4.384	5.41920	2.1710	-.01530	.22860	.14430	-.07860	.00210	-.00830	1.34740
1.195	6.446	5.41170	.33130	-.03150	.34940	.14170	-.07050	.00060	-.00820	1.84040
1.197	8.606	5.41240	.44310	-.04380	.46890	.14020	-.07100	-.00050	-.00940	2.12360
1.197	10.780	5.39100	.54650	-.05000	.58240	.13860	-.07150	.00040	-.00930	2.24830
1.195	12.987	5.36680	.65410	-.06130	.70200	.13480	-.07580	-.00050	-.00700	2.26730
1.197	15.088	5.41750	.75820	-.07050	.82130	.13360	-.07120	-.00250	-.00600	2.21210
1.193	17.249	5.45190	.85090	-.07880	.93230	.13060	-.07600	-.00680	-.00670	2.10870
1.191	19.420	5.46300	.93630	-.08040	1.03880	.12650	-.08560	-.01140	-.00710	1.99830
1.193	21.561	5.46530	1.01380	-.08090	1.14010	.12500	-.09260	-.01590	-.00720	1.88890
1.192	23.670	5.47900	1.08360	-.08100	1.23540	.12150	-.09500	-.01890	-.00560	1.78320
1.186	25.761	5.49450	1.12440	-.08230	1.30530	.11790	-.09870	-.02320	-.00780	1.68870
	GRADIENT	.00823	.05735	-.01145	.06501	-.00650	.00112	-.00076	-.00029	.35960

RUN NO. 117 0 RNAL = 4.29 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.403	.066	5.39060	-.03640	.01310	-.00620	.14680	-.07920	.00400	-.00450	-.04340
1.402	2.145	5.46540	.09650	-.00800	.09500	.14510	-.10630	-.00010	-.00840	.60900
1.399	4.262	5.47010	.19500	-.02370	.20610	.14190	-.07810	.00070	-.00730	1.24320
1.398	6.395	5.41680	.29820	-.03960	.31660	.13890	-.06880	-.00100	-.00760	1.72630
1.395	8.544	5.42770	.40100	-.05290	.42610	.13670	-.07520	.00280	-.00810	2.02100
1.395	10.710	5.40550	.49800	-.06380	.53230	.13460	-.07050	.00260	-.00730	2.15400
1.395	12.850	5.39960	.59260	-.07420	.63780	.13170	-.06740	.00330	-.00690	2.12250
1.398	15.000	5.42630	.68290	-.08180	.74180	.12960	-.06960	.00570	-.00610	2.15310
1.398	17.162	5.43920	.77340	-.08850	.84840	.12600	-.06930	.00650	-.00580	2.08630
1.390	19.336	5.46330	.85550	-.09340	.95390	.12330	-.05930	.01320	-.00500	1.99350
1.396	21.481	5.48180	.93210	-.09340	1.04970	.11930	-.05060	.01770	-.00580	1.88360
1.388	23.600	5.48690	1.00330	-.09160	1.14600	.11720	-.05060	-.02110	-.00520	1.77200
1.387	25.705	5.48450	1.05590	-.08490	1.22670	.11380	-.04790	-.02370	-.00740	1.66370
	GRADIENT	.00933	.04800	-.00877	.05059	-.00117	.00042	-.00078	-.00057	.30556

 ORIGINAL PAGE IS
 OF POOR QUALITY

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES.

(RE7007) (02 AUG 76)

REFERENCE DATA

SREF = 2530.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFIAR = -7.170

RUN NO. 301/ 0 RW/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.555	.026	4.55670	-.01460	.14110	-.00660	-.01450	.14110	-.08360	.08280	-.00230	-.10360
1.555	2.042	4.55210	.07840	.14100	-.00840	.08340	.13810	-.07940	.00145	-.00290	.55500
1.555	4.115	4.55310	.17180	.14950	-.02120	.18200	.13580	-.37300	-.00090	-.00300	1.15650
1.555	6.194	4.55390	.27160	.16330	-.03460	.28778	.13510	-.05800	-.00250	-.00300	1.65340
1.555	8.252	4.55200	.35320	.18400	-.04840	.37606	.13130	-.06750	-.00330	-.00360	1.92010
1.555	10.331	4.56110	.44070	.21120	-.05990	.47148	.12370	-.06450	-.00370	-.00370	2.08580
1.555	12.379	4.56860	.52290	.24370	-.06690	.56300	.12530	-.06550	-.00450	-.00290	2.14590
1.555	14.452	4.57190	.60210	.28320	-.07190	.65380	.12380	-.06730	-.00590	-.00290	2.12640
1.555	16.608	4.57840	.67920	.32810	-.07750	.74470	.12230	-.06220	-.00860	-.00290	2.07010
1.555	18.707	4.58310	.76190	.38080	-.08270	.84380	.11530	-.05710	-.01180	-.00280	2.00070
1.555	20.736	4.59160	.83680	.43750	-.08710	.93750	.11290	-.05420	-.01550	-.00300	1.91250
1.555	24.835	4.59620	.96570	.56660	-.09460	1.11450	.10770	-.04550	-.01930	-.00400	1.70430
1.555	25.912	4.60540	.99560	.60180	-.09390	1.15930	.10580	-.04730	-.02120	-.00430	1.55610
GRADIENT		-.00087	.04258	.00182	-.00778	.04805	-.00130	-.00259	-.00081	-.00017	.30805

RUN NO. 310/ 0 RW/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	7.077	4.75100	-.01500	.13680	-.00060	-.01520	.13680	-.08460	.00050	-.00230	-.11000
1.750	1.918	4.74770	.05760	.13640	-.01340	.07210	.13410	-.09170	-.00080	-.00240	.49520
1.750	3.992	4.74680	.15400	.14170	-.02520	.16350	.13070	-.07600	-.00260	-.00230	1.08530
1.750	6.056	4.74840	.23390	.15380	-.03520	.24680	.12830	-.07150	-.00430	-.00200	1.52040
1.750	8.127	4.75030	.31330	.17220	-.04270	.33450	.12610	-.07060	-.00550	-.00220	1.82020
1.750	10.190	4.74920	.39230	.19590	-.04900	.41940	.12370	-.06670	-.00610	-.00270	1.99500
1.750	12.232	4.75260	.46730	.22560	-.05520	.50450	.12140	-.06530	-.00760	-.00290	2.07130
1.750	14.317	4.75700	.54330	.26090	-.06060	.59090	.11850	-.06410	-.00930	-.00310	2.08210
1.750	16.453	4.76220	.61770	.30240	-.06330	.67810	.11500	-.06220	-.01190	-.00300	2.04250
1.750	18.547	4.76650	.69020	.34790	-.06680	.76500	.11030	-.05700	-.01460	-.00300	1.88370
1.750	20.574	4.76910	.76410	.40090	-.07080	.85620	.10660	-.04970	-.01720	-.00300	1.50630
1.750	24.717	4.78240	.89430	.52660	-.07520	1.05090	.10170	-.04670	-.02130	-.00370	1.71140
1.750	25.748	4.78120	.93040	.55930	-.07710	1.08090	.09360	-.04700	-.02210	-.00380	1.56360
GRADIENT		-.00053	.04154	.00121	-.00604	.04392	-.00150	-.00217	-.00079	.00000	.29595

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 5.003 ELEVON = .000
ALL ROM = .003 BDF LAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SOL-ET. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 938.6000 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

RUN NO. 311/ 0 RN/L = 3.0% GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.996	- .017	4.22740	-.01460	.12800	-.07070	-.01460	.12880	-.08510	.00260	-.00290	-.11400
1.996	1.974	4.22730	.05800	.12730	-.02020	.06230	.12520	-.08020	.00140	-.00230	.45570
1.996	4.036	4.22380	.13010	.13230	-.02870	.13900	.12280	-.07520	.00060	-.00200	.98295
1.996	6.098	4.22310	.28020	.14260	-.03350	.21420	.12050	-.07080	.00210	-.00180	1.40440
1.996	8.157	4.22330	.26940	.15810	-.03860	.28910	.11830	-.06700	.00350	-.00160	1.78440
1.996	10.215	4.22460	.24040	.17830	-.04260	.36670	.11570	-.06580	.00420	-.00230	1.93260
1.996	12.255	4.22460	.41000	.20550	-.04580	.44430	.11370	-.06380	.00580	-.00230	1.98570
1.996	14.338	4.22670	.48150	.23620	-.04860	.52500	.10760	-.05740	.00730	-.00280	2.03960
1.996	16.475	4.22930	.55210	.27590	-.05140	.60710	.10510	-.05280	.00930	-.00280	2.01540
1.996	18.555	4.23360	.62270	.31810	-.05550	.69150	.10340	-.04960	.01190	-.00290	1.98420
1.996	20.577	4.23730	.69070	.36620	-.05840	.77470	.10130	-.04430	.01540	-.00350	1.80080
1.996	22.650	4.24270	.75660	.42010	-.06090	.86000	.09630	-.04370	.01630	-.00400	1.70770
1.996	24.713	4.24870	.82070	.48860	-.06480	.94660	.09350	-.04450	.01650	-.00420	1.66320
1.996	25.736	4.25180	.85380	.51340	-.06690	.98280	.09170	-.04540	.00079	-.00010	.27060
GRADIENT			.03570	.00107	-.00444	.03790	-.00128	.00244			

RUN NO. 320/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.250	- .075	4.07550	-.02230	.12150	-.01540	-.02250	.12150	-.08070	.00340	-.00240	-.18360
2.250	1.980	4.07410	.04200	.12070	-.02140	.04590	.11920	-.07720	.00220	-.00230	.34760
2.250	3.950	4.05880	.10820	.12440	-.02690	.11450	.11680	-.07090	.00980	-.00210	.65350
2.250	6.095	4.07090	.16700	.13200	-.02830	.17990	.11380	-.06640	.00100	-.00210	1.26500
2.250	8.095	4.07180	.23130	.14570	-.03050	.24940	.11180	-.06310	.00250	-.00220	1.58790
2.250	10.107	4.05760	.29590	.16440	-.03210	.32000	.11000	-.05960	.00310	-.00260	1.75980
2.250	12.139	4.07270	.36390	.18440	-.03460	.39540	.10770	-.05770	.00420	-.00310	.93050
2.250	14.212	4.07440	.43210	.21780	-.03720	.47230	.10500	-.05410	.00570	-.00320	.98410
2.250	16.368	4.07780	.49840	.25260	-.03990	.54930	.10220	-.05120	.00750	-.00330	1.97290
2.250	18.413	4.08130	.56340	.29160	-.04260	.62670	.09770	-.04770	.00940	-.00340	1.93250
2.250	20.426	4.08650	.62890	.33580	-.04530	.70620	.09340	-.04420	.01050	-.00380	.87150
2.250	22.434	4.08940	.69370	.38570	-.04800	.78890	.09100	-.04280	.01230	-.00440	1.79380
2.250	24.443	4.09400	.75720	.44410	-.05190	.87320	.08940	-.04390	.01400	-.00440	1.70500
2.250	25.555	4.09700	.81930	.47560	-.05390	.91820	.08800	-.04380	.01290	-.00440	.65160
GRADIENT			.03183	.00073	-.00285	.03400	-.00117	.00244			

TABULATED DATA - 0A161 (ARC 11-97-87-C34)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(RE7807) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.176

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 445/ 0 RV/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.499	.099	5.18610	-.03780	.11480	-.01910	-.03770	.11490	-.09370	.00160	-.00270	-.32960
2.499	.128	5.15910	.01850	.11310	-.02230	.02860	.11230	-.07880	.00050	-.00250	.16320
2.499	.178	5.13610	.07610	.11510	-.02530	.08430	.10930	-.07350	-.00100	-.00230	.66100
2.499	.242	5.11890	.13390	.12170	-.02640	.14530	.10650	-.07090	-.00280	-.00250	.10980
2.499	.328	5.10470	.19390	.13550	-.02750	.21100	.10430	-.06630	-.00450	-.00290	.145270
2.499	.423	5.09510	.25990	.15050	-.02850	.27870	.10230	-.06460	-.00570	-.00370	.170070
2.499	.528	5.08920	.32190	.17300	-.03060	.35150	.10110	-.05910	-.00680	-.00430	.186260
2.499	.643	5.08640	.38910	.20030	-.03300	.42570	.09760	-.05900	-.00790	-.00500	.193790
2.499	.778	5.08200	.45350	.23260	-.03560	.50080	.09490	-.05750	-.00900	-.00550	.194940
2.499	.921	5.07410	.51890	.27120	-.03880	.57810	.09300	-.05470	-.01060	-.00570	.191360
2.499	1.074	5.06490	.58250	.31460	-.04050	.65580	.09060	-.05330	-.01150	-.00650	.185130
2.499	1.235	5.05170	.64550	.36360	-.04410	.73570	.08810	-.05280	-.01230	-.00700	.177550
2.499	1.406	5.03580	.70710	.41720	-.04720	.81650	.08510	-.05220	-.01350	-.00730	.159480
2.499	1.587	5.01770	.75330	.44680	-.04850	.85710	.08440	-.05340	-.01410	-.00760	.154780
2.499	1.778	5.00000	.78792	.46008	-.04960	.88951	.08137	-.05248	-.01410	-.00760	.154780
2.499	1.979	4.98225	.80792	.46008	-.05062	.90951	-.00137	.00248	-.00064	-.00010	.24283

GRADIENT

RUN NO. 436/ 0 RV/L = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.040	.096	5.34900	-.04150	.10350	-.02310	-.04140	.10350	-.08990	.00090	-.00180	-.48150
3.040	.155	5.32410	.00270	.10220	-.02370	.00660	.10700	-.08060	-.00020	-.00240	.02710
3.040	.210	5.30100	.05230	.10030	-.02400	.05950	.09620	-.07470	-.00150	-.00260	.52150
3.040	.267	5.28370	.10300	.10470	-.02330	.11370	.09300	-.07190	-.00330	-.00310	.99350
3.040	.324	5.26870	.15710	.11430	-.02370	.17190	.09070	-.06950	-.00410	-.00360	.137550
3.040	.381	5.25860	.21320	.12950	-.02350	.23280	.08756	-.06700	-.00470	-.00450	.184500
3.040	.438	5.25170	.27100	.14870	-.02400	.29550	.08570	-.06470	-.00510	-.00500	.192250
3.040	.495	5.24840	.32990	.17270	-.02470	.36230	.08570	-.06270	-.00500	-.00510	.191030
3.040	.552	5.25040	.38950	.20150	-.02610	.42960	.08400	-.05950	-.00590	-.00500	.198770
3.040	.609	5.25650	.44730	.23350	-.02770	.49670	.08230	-.05800	-.00670	-.00500	.184460
3.040	.666	5.26680	.50810	.27550	-.02970	.57230	.08180	-.05650	-.00750	-.00760	.177330
3.040	.723	5.28190	.56910	.32090	-.03250	.64850	.07910	-.05400	-.00830	-.00750	.169890
3.040	.780	5.29940	.62670	.37110	-.03480	.72420	.07780	-.05320	-.00910	-.00760	.164620
3.040	.837	5.30870	.65570	.39870	-.03570	.76340	.07690	-.05320	-.00955	-.00770	.164620
3.040	.894	5.31778	.68302	.40079	-.03607	.78476	-.00179	.00152	-.00000	-.00000	.26552

GRADIENT

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(RE7007) (02 AUG 75)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 4357 0 RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	.193	5.47550	-.05010	.09610	-.02440	-.05040	.09590	-.07900	.00000	-.00080	-.52180
3.498	1.838	5.44800	-.00800	.09210	-.02290	-.00500	.09530	-.07370	-.00060	-.03160	-.38640
3.497	3.855	5.42950	.03910	.09070	-.02250	.04410	.08730	-.07700	-.00210	-.00240	-.23050
3.496	5.831	5.40910	.08520	.09420	-.02180	.09440	.08500	-.07220	-.00290	-.00290	-.90410
3.495	7.913	5.39230	.13360	.10170	-.02100	.14630	.08230	-.06440	-.00340	-.00380	1.31330
3.494	9.949	5.37640	.18360	.11460	-.01970	.20050	.08120	-.06180	-.00340	-.00500	1.50190
3.493	11.979	5.36100	.23610	.13170	-.01890	.25830	.07990	-.06190	-.00420	-.00580	1.79220
3.492	14.010	5.34770	.29190	.15390	-.01800	.32040	.07730	-.06380	-.00530	-.00740	1.89830
3.491	16.029	5.33740	.34770	.18030	-.01890	.38390	.07630	-.05650	-.00570	-.00740	1.90820
3.490	18.068	5.32810	.40550	.21250	-.02120	.45150	.07490	-.05420	-.00730	-.00860	1.85270
3.489	20.100	5.31900	.46520	.25000	-.02260	.52270	.07390	-.05020	-.00820	-.00930	1.78820
3.488	22.131	5.31020	.52680	.29230	-.02470	.59440	.07260	-.05110	-.00930	-.00930	1.70750
3.487	24.167	5.30230	.58070	.34010	-.02530	.66900	.07200	-.05150	-.01040	-.00920	1.58400
3.486	25.177	5.29520	.60750	.36510	-.02530	.70510	.07200	-.05150	-.01040	-.00920	1.58400
3.485	GRADIENT	5.28890	.62179	-.00133	.08047	.02334	-.00198	.00050	-.00052	-.00040	.23275

(RE7008) (02 AUG 75)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 997 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.497	.143	-4.53390	-.04580	.04990	.02730	-.04570	-.05010	.08970	-.00750	.00390	-.91670
3.496	4.223	-4.50460	.14610	.05320	.02690	.14360	.04260	.08840	-.00720	.00630	2.63380
3.495	8.359	-4.49480	.34510	.07300	.02700	.30390	.02180	.08370	-.00760	.00980	4.74380
3.494	10.475	-4.49160	.45460	.09130	.02050	.46360	.00710	.08230	-.00750	.01310	4.97900
3.493	12.587	-4.48830	.56870	.11910	.01870	.58100	-.03770	.07850	-.00710	.01430	4.77570
3.492	14.692	-4.48530	.68680	.16570	.01870	.68880	-.00930	.06730	-.00890	.01110	4.25570
3.491	16.793	-4.48230	.76700	.22480	.01180	.79920	-.00640	.05040	-.00910	.00640	3.41240
3.490	18.893	-4.47930	.84900	.28250	.00370	1.01210	-.00250	.03270	-.00940	.00770	2.50730
3.489	20.915	-4.47630	.90570	.30081	-.00040	.04562	-.00180	-.00007	.00007	.00059	.87442

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-89+ 0A161 ORBITER + TUFTS

(RE7008) (02 AUG 75)

REFERENCE DATA

SPEED = 2890.0000 SO.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6000 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

PARAMETRIC DATA

BETA = -5.000 ELEVON = -.000
AIRLON = .000 BDFLAP = -7.170

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.795	.117	-4.96780	-.05930	.05490	.03750	-.06913	.05500	.09020	-.00900	.00350	-1.08000
.798	4.235	-4.96140	.14860	.05240	.03420	.15253	.04830	.09020	-.00850	.00550	2.49800
.797	8.448	-4.94380	.37080	.09560	.02130	.38080	.04810	.08950	-.00780	.00840	3.87940
.795	10.577	-4.93760	.46780	.12690	.01970	.48309	.03790	.08550	-.00750	.01000	3.71670
.796	12.699	-4.91630	.58230	.16550	.01770	.58490	.03780	.09160	-.00670	.00990	3.35800
.792	14.828	-4.91790	.69430	.21540	.01400	.68770	.04080	.08940	-.00410	.00740	3.03790
.795	16.946	-4.92730	.74580	.27220	.00720	.79278	.04300	.09630	-.00210	.00530	2.74020
.795	21.232	-4.94780	.92000	.39890	.01870	1.00200	.03860	.09630	.00170	.00230	2.30660
GRADIENT		-.00087	.05047	.00109	-.00080	.05139	-.01153	.00000	.00012	.00073	.86893

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.850	.106	-4.96770	-.06320	.05810	.04330	-.06318	.05820	.09780	-.00870	.00300	-1.08720
.851	4.248	-4.96080	.15459	.06650	.03570	.15900	.05480	.09260	-.00930	.00540	2.32480
.848	8.478	-4.93900	.38510	.10670	.02480	.37680	.05180	.08643	-.00720	.00810	3.42160
.847	10.596	-4.92960	.46190	.13400	.02270	.47820	.04970	.08200	-.00610	.00970	3.37250
.847	12.714	-4.91690	.55280	.17780	.01950	.57760	.05120	.08760	-.00530	.00950	3.11900
.848	14.846	-4.92950	.64300	.22710	.01350	.67970	.05460	.09220	-.00290	.00710	2.83160
.848	16.975	-4.92950	.73450	.28210	.00930	.78490	.05330	.08950	-.00040	.00470	2.60420
.846	21.252	-4.96170	.88760	.40320	.03110	.94340	.05390	.08630	.00980	.00550	2.20130
GRADIENT		.00167	.05255	.00203	-.00183	.05363	-.00082	.00126	-.00014	.00058	.82382

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.900	.105	-4.96560	-.05170	.06990	.03870	-.05150	.07000	.08890	-.00970	.00620	-1.75930
.902	4.261	-4.97350	.17760	.08330	.02260	.18330	.06990	.09760	-.00920	.00870	2.13220
.900	8.474	-4.95830	.38940	.12270	.02360	.38340	.06780	.09120	-.00590	.00830	3.00830
.901	10.612	-4.94510	.47520	.15930	.01380	.49646	.06800	.08550	-.00490	.00950	2.98400
.897	12.727	-4.92900	.56170	.19770	.01100	.58148	.05910	.08920	-.00310	.00880	2.84130
.897	14.861	-4.93440	.65590	.24590	.00270	.69660	.05860	.08480	.00080	.00650	2.66630
.898	16.995	-4.94010	.74450	.30070	.00290	.79980	.05990	.08400	.00499	.00540	2.47610
.902	21.284	-4.97530	.88260	.41900	.02760	.97450	.07010	.08390	.01590	.00640	2.10630
GRADIENT		-.00190	.05517	.00362	-.00387	.05650	-.00302	.00031	.00012	.00060	.89693

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER + TUFTS

(RE7008) (02 AUG 76)

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
AIRLON =

-5.000 ELEVON = .000
.000 BDFLAP = -7.170

RUN NO. 120/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.950	.112	-4.97210	-.05140	.09860	.04390	-.05120	-.06970	.08630	-.00680	-.00590	-.52160
.948	4.273	-4.97630	.20370	.11310	.01370	.21160	.06760	.08740	-.00680	.00520	1.80220
.943	8.519	-4.95960	.42630	.15880	-.00530	.44520	.06390	.08200	-.00210	.00650	2.68530
.947	10.652	-4.95620	.52576	.18920	-.01210	.55160	.06880	.07720	.00210	.00970	2.77870
.947	12.783	-4.94230	.62270	.23310	-.01650	.65890	.06960	.07350	.00490	.00890	2.67150
.945	14.923	-4.95310	.71210	.28260	-.01640	.76090	.06960	.07610	.00790	.00810	2.52010
.945	17.075	-4.94750	.89610	.34260	-.01900	.87460	.06960	.06860	.01070	.00790	2.35190
.947	21.367	-4.94430	.93600	.46220	-.01050	1.04010	.06940	.06080	.00930	.01020	2.02500
GRADIENT		-.00101	.06128	.00348	-.00846	.06313	-.01026	.00026	.00000	-.00017	.55823

RUN NO. 121/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.983	.120	-4.97160	-.04380	.11760	.05380	-.04860	.11770	.08080	-.00610	.00710	-.41490
.979	4.295	-4.96580	.20930	.13140	.01430	.21850	.11530	.08040	-.00550	.00770	1.59330
.933	8.550	-4.93930	.44120	.17990	-.01040	.46310	.11230	.07900	-.00600	.00730	2.45230
.931	10.692	-4.93310	.55440	.21490	-.02350	.58460	.10830	.07400	-.00290	.00950	2.58010
.976	12.834	-4.91560	.66260	.25920	-.03280	.70370	.10550	.06860	-.00160	.01020	2.59630
.980	14.986	-4.93250	.76230	.31510	-.03560	.81790	.10710	.07110	.00090	.00870	2.41970
.978	17.144	-4.94320	.83370	.37560	-.03740	.92650	.10720	.07170	.00620	.01080	2.27300
.979	21.471	-4.95360	1.01960	.51560	-.02950	1.13740	.10600	.05990	.01270	.01590	1.97990
GRADIENT		.00144	.06182	.00331	-.00948	.06395	-.00057	-.00010	.00014	.00014	.48098

RUN NO. 130/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.950	.123	-4.98830	-.03560	.13780	.05010	-.03530	.13790	.09100	-.00570	.01420	-.25810
.949	4.301	-4.98560	.22800	.15720	.00120	.23910	.13970	.07580	-.00460	.00980	1.44990
.947	8.565	-4.94510	.45380	.20500	-.02330	.47930	.13510	.07590	-.00380	.01090	2.21420
.949	10.716	-4.94380	.56570	.24250	-.03430	.60090	.13310	.07440	-.00160	.01090	2.33300
.949	12.873	-4.93310	.67490	.28910	-.04270	.72240	.11150	.07350	-.00050	.01090	2.33450
.949	15.041	-4.94120	.77520	.34370	-.04450	.83790	.10700	.07520	-.00040	.01050	2.25550
.945	17.155	-4.95550	.85980	.45440	-.05640	1.00990	.10990	.06950	.01230	.00920	1.89550
GRADIENT		.00443	.06303	.00464	-.01170	.06568	.00043	-.00364	.00026	-.00014	.42691

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + TUFTS

(RE70081 (02 AUG 75)

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

BETA = -5.000 ELEVON = .000
ANLROM = .000 BDFLAP = -7.178

RUN NO. 131/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.00	.121	-4.98900	-.02910	.14070	.04350	-.02880	.14080	.08660	-.00660	.01040	-.20660
1.09	.299	-4.97370	.23080	.16120	-.00360	.24230	.14350	.07220	-.00560	.00960	1.43180
1.097	8.564	-4.96200	.44710	.20960	-.02360	.47330	.14060	.07900	-.00510	.00940	2.13370
1.097	10.718	-4.94640	.95720	.24390	-.02370	.59280	.13600	.06970	-.00380	.01180	2.28420
1.097	12.872	-4.94280	.65300	.28750	-.04280	.71040	.13260	.07600	-.00190	.01180	2.30610
1.095	15.046	-4.95790	.77480	.34440	-.05020	.83760	.13150	.08420	-.00230	.00750	2.24930
1.095	17.208	-4.96420	.87270	.40730	-.05680	.95410	.13090	.08250	.00200	.00810	2.14260
1.095	21.534	-4.97910	1.04010	.56180	-.06290	1.17000	.13160	.08670	.01280	.00760	1.88480
1.096		.00366	.06221	.00491	-.01127	.06489	.00065	-.00321	.00022	-.00019	.39318

RUN NO. 138/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.143	.109	-4.98050	-.02510	.14250	.03880	-.02490	.14260	.08750	-.00650	.00930	-.17540
1.148	4.282	-4.96990	.22590	.15870	-.01170	.23720	.14240	.07250	-.00470	.00878	1.41480
1.147	8.555	-4.95110	.44950	.20790	-.03650	.47550	.13880	.07410	-.00180	.00980	2.16180
1.143	10.710	-4.94850	.95400	.24280	-.04240	.58940	.13570	.07590	-.00140	.01120	2.28120
1.150	12.865	-4.93658	.65740	.28668	-.04970	.70480	.13300	.07630	-.00110	.01050	2.29400
1.146	15.043	-4.95170	.77110	.34200	-.06100	.83350	.13020	.07760	.00170	.00610	2.29450
1.146	17.205	-4.96410	.86720	.40420	-.06860	.94800	.12960	.08060	.00220	.00590	2.14530
1.145	21.535	-4.97480	1.03310	.54590	-.07310	1.16140	.12850	.08580	.01500	.00670	1.89660
		.00254	.06016	.00412	-.01210	.06282	-.00005	-.00288	.00043	-.00014	.38137

RUN NO. 141/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.193	.102	-4.98160	-.01940	.14570	.03350	-.01910	.14570	.08180	-.00720	.00780	-.13300
1.193	4.277	-4.99360	.22120	.16940	-.01470	.23260	.14350	.08160	-.00420	.00890	1.37880
1.194	8.548	-4.95980	.44420	.20750	-.04130	.47010	.13920	.07900	-.00170	.00910	2.14200
1.193	10.720	-4.95600	.94930	.24330	-.04990	.58490	.13710	.07970	-.00200	.01090	2.25750
1.197	12.859	-4.94400	.65910	.28950	-.06080	.70590	.13490	.07770	-.00180	.00790	2.28260
1.196	15.033	-4.95980	.76420	.34380	-.07050	.82720	.13380	.07860	.00090	.00740	2.22320
1.195	17.196	-4.96430	.85510	.40380	-.07520	.93630	.13300	.07890	.00420	.00690	2.11768
1.195	21.518	-4.99200	1.01250	.53550	-.07650	1.13840	.12680	.08830	.01400	.00720	1.89260
1.193		.00048	.05762	.00352	-.01154	.06828	-.00053	-.00096	.00072	-.00026	.36256

(RE70081 (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-084)

ARC 11-97-87-084 OA161 ORBITER + TUFTS

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = -5.006 ELEVON = .000
 ATLRON = .000 BOFLAP = -7.175

PARAMETRIC DATA

RUN NO. 150/ 0 RW/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEL	L/D
1.298	.095	-4.98240	-.00650	.02080	-.00620	.14830	.08730	-.00550	.00610	-.04360
1.300	4.252	-4.98950	.21170	-.02850	.22360	.14420	.07980	-.00280	.00810	1.32030
1.295	8.517	-4.98060	.42680	-.05080	.45240	.13850	.07120	.00040	.00740	2.08170
1.295	10.657	-4.98030	.53180	-.06310	.56710	.13790	.08450	.00140	.00820	2.21110
1.295	12.821	-4.94320	.63480	-.07470	.68180	.13540	.07430	-.00100	.00780	2.24060
1.295	14.933	-4.98960	.73560	-.08440	.79750	.13430	.05910	.00510	.00770	2.18910
1.295	17.156	-4.98800	.82330	-.08690	.98250	.13220	.07630	.00710	.00840	2.09730
1.293	21.480	-4.98790	.9210	-.08340	1.09430	.12510	.07820	.01460	.00890	1.87840
GRADIENT		.00394	.03250	-.08990	.05615	-.00190	-.00180	.00065	.00148	.32517

RUN NO. 151/ 0 RW/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEL	L/D
1.403	.077	-5.01760	-.00390	.01290	-.00370	.14880	.09730	-.00420	.00550	-.02660
1.405	4.224	-5.01920	.19360	-.02310	.21060	.14210	.09060	-.00180	.00170	1.25950
1.400	8.497	-4.95590	.40670	-.05340	.43170	.13730	.08470	.00010	.00850	2.03820
1.400	10.633	-4.98670	.50350	-.06270	.53460	.13530	.07390	.00110	.00750	2.15080
1.400	12.784	-4.94620	.59660	-.07250	.64190	.13320	.07140	.00360	.00730	2.19380
1.398	14.948	-4.97440	.68390	-.08140	.74890	.13050	.08200	.00560	.00670	2.15100
1.398	17.110	-4.97070	.77860	-.08790	.86380	.12710	.07510	.00730	.00690	2.08930
1.393	21.443	-4.96750	.84000	-.08240	1.05690	.11950	.05310	.01580	.00910	1.88900
GRADIENT		.00039	.04907	-.00868	.05188	-.00113	-.00182	.00058	.00053	.31295

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + TUFIS

(RE7009) (02 AUG 78)

PARAMETRIC DATA

BETA = -2.00% ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	.112	-1.88250	-.05190	.05230	.02960	-.05170	.05240	-.03660	-.00310	.00140	-.95100
.595	.181	-1.85630	.13460	.05510	.02930	.13820	.04510	.03510	-.00270	.00200	2.44400
.597	.344	-1.85240	.34140	.07330	.02420	.34840	.02300	.03800	-.00270	.00370	4.58480
.597	.452	-1.84800	.45020	.09190	.06240	.45940	.00570	.03330	.00300	.00540	4.90840
.597	.575	-1.84030	.55910	.11950	.02260	.57170	-.00510	.03360	-.00280	.00630	4.58010
.597	.677	-1.81490	.66150	.16550	.02130	.68190	-.00560	.04070	-.00430	.00480	3.95680
.597	.807	-1.87060	.75180	.22440	.01750	.78460	-.00660	.04310	-.00460	.00420	3.35030
.597	.944	-1.86020	.94400	.36820	.00580	1.01320	.00460	.04360	-.00420	.00420	2.56360
.595	.00544	.00563	.00069	.00012	.00012	.04666	-.00179	-.00037	.00010	.00015	.84404

GRADIENT
 RUN NO. 101 / 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.795	.083	-1.89060	-.06460	.05670	.04100	-.06450	.05680	.04070	-.00260	.00100	-1.13540
.797	.4216	-1.87190	.14330	.05060	.03690	.14740	.04590	.04080	-.00260	.00220	2.36650
.795	.8431	-1.85700	.35300	.09530	.02380	.37310	.04110	.03540	-.00240	.00380	3.60710
.797	.10563	-1.84760	.45750	.12600	.02540	.47290	.03890	.03310	-.00290	.00440	3.63260
.798	.12587	-1.84750	.54850	.16340	.02600	.57100	.03900	.04060	-.00290	.00320	3.35610
.795	.14804	-1.83770	.64720	.21450	.01900	.68060	.04200	.04050	-.00300	.00150	3.01710
.795	.16965	-1.83160	.73840	.27420	.01110	.78630	.04680	.04210	-.00150	.00070	2.59310
.797	.21263	-1.84480	.91290	.40450	.02160	.95740	.04590	.04150	-.00120	.00200	2.25650
.795	.00452	.00503	.00094	.00094	-.00099	.05127	-.00167	.00002	.00003	.00029	.84797

GRADIENT
 RUN NO. 109 / 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.849	.075	-1.89440	-.07090	.06050	.04780	-.07080	.06060	.03420	-.00280	.00090	-1.17140
.849	.4224	-1.86420	.14770	.05550	.03930	.15220	.05530	.03330	-.00310	.00130	2.21950
.847	.8442	-1.85220	.35480	.10720	.02820	.36670	.05390	.03430	-.00190	.00400	3.31050
.849	.10580	-1.84260	.44940	.13690	.02860	.46590	.05200	.03700	-.00210	.00470	3.27690
.849	.12708	-1.83830	.53920	.17590	.02830	.56470	.05300	.03430	-.00130	.00380	3.05680
.847	.14821	-1.83200	.63590	.22690	.01570	.67280	.05660	.03910	-.00250	.00220	2.81310
.847	.16992	-1.82550	.72470	.29300	.01290	.77580	.05680	.03910	-.00060	.00130	2.55120
.849	.21283	-1.87530	.88090	.40590	.03090	.96820	.05840	.03200	-.00190	.00030	2.17020
.845	.00428	.00428	.00145	.00145	-.00205	.05376	-.00125	.00022	-.00007	.00019	.81749

GRADIENT

REFERENCE DATA

	SPFF	2690.0000	90. FT.	YMP	1076.5860	IN. X0
REF	=	474.8000 <td>IN.</td> <td>YMP</td> <td>=</td> <td>IN. Y0</td>	IN.	YMP	=	IN. Y0
REF	=	935.6900 <td>IN.</td> <td>ZMP</td> <td>=</td> <td>IN. Z0</td>	IN.	ZMP	=	IN. Z0
SCALE	=	=	.0300			

BETA
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MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CF	CYN	CBE
0.00	0.087	-1.8950	-0.5300	0.7140	0.0230	-0.0580	0.7140	0.3820	-0.0380	-0.0000
0.05	0.151	-1.8510	1.7330	0.8480	0.2470	0.1850	0.7120	0.3530	-0.0230	0.0000
0.10	0.203	-1.8250	3.6820	1.2640	0.2130	0.3820	0.7080	0.3280	-0.0170	0.0000
0.15	0.255	-1.8000	4.9470	1.5710	0.1900	0.4850	0.6900	0.3000	-0.0090	0.0000
0.20	0.307	-1.7750	5.5710	1.9740	0.1540	0.5890	0.6590	0.2700	-0.0030	0.0000
0.25	0.359	-1.7500	6.5090	2.4800	0.0438	0.6920	0.7310	0.2350	-0.0010	0.0000
0.30	0.411	-1.7250	7.4080	3.0360	0.7970	0.7970	0.7340	0.2000	-0.0060	0.0000
0.35	0.463	-1.7000	8.8900	4.2420	0.2690	0.7760	0.7410	0.1650	-0.0000	0.0000
0.40	0.515	-1.6750	9.9590	5.0320	-0.0023	0.5728	-0.0005	-0.0070	-0.0005	0.0029
0.45	0.567	-1.6500	10.1010							

COND NO	118/0	BN/1	4.3R	GRADIENT INTERVAL	-5.00V	5.00V
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MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYM	CE	L/D
3.57	0.73	-1.88270	-0.5540	.09880	.05020	-.05520	.09930	.02900	-.00150	.00170	1.56350
3.7	0.232	-1.85160	.20560	.11280	.01110	.21340	.03880	.03380	-.00690	.00130	1.82330
3.7	4.232	-1.83160	.52500	.19050	-.01250	.55160	.09820	.02600	.00420	.00420	2.75790
3.5	12.754	-1.84600	.61560	.23310	-.01290	.65200	.09110	.03150	.06470	.00210	2.64080
3.5	17.115	-1.91330	.81810	.35110	-.02900	.86520	.09480	.03200	.00810	.00120	2.33000
3.5	21.542	-1.87280	.94450	.45720	.00490	1.05010	.09040	.03020	.00250	-.00250	2.02350
3.5	25.544	-1.87505	.96245	.50335	-.00930	1.06427	-.00041	.03115	.00017	-.00310	1.50030

DATE	TIME	COEFFICIENT	INTERVAL	5.00
1961.02.10	14.33	-5.00	5.00	

[illegible]

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

(RE7008) 1 02 AUG 76

PARAMETRIC DATA

BETA = -2.080 ELEVON = .000
AILRON = .003 SCFLAP = -2.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.5900 IN. X0
REF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6000 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.051	.092	-1.90410	-.04110	.14090	-.05490	-.04090	.14100	.03690	-.00160	-.00390	-.29180
1.050	.280	-1.87050	.22830	.15910	.00030	.23950	.14160	.03120	-.00060	.00340	1.43520
1.048	8.558	-1.85150	.45540	.20500	-.02540	.48080	.13490	.03200	-.00020	.00270	2.29190
1.046	10.717	-1.83180	.56290	.24220	-.03520	.59810	.13330	.02520	.00060	.00460	2.33370
1.044	12.663	-1.82570	.67010	.29030	-.04430	.71790	.13390	.02590	.00070	.00510	2.36790
1.042	15.017	-1.82260	.77750	.34720	-.05150	.84090	.13380	.02530	.00010	.00580	2.39700
1.040	17.239	-1.81020	.88010	.41350	-.05680	.96310	.13410	.02470	-.00060	.00440	2.42850
1.038	21.584	-1.83140	1.06980	.56520	-.06840	1.20180	.13230	.02430	.00130	.00330	1.89120
1.036	26.791	-1.80950	1.11400	.70860	-.07470	1.31380	.13050	.02330	.01520	.00550	1.57200
GRADIENT		.00802	.06433	.00435	-.01324	.06695	.00014	-.00136	.00024	-.00112	-.12338

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.099	.083	-1.90410	-.03650	.13940	-.04920	-.03630	.13940	.03180	-.00140	-.00360	-.26220
1.100	.280	-1.87710	.23330	.16010	-.03400	.24160	.14250	.02610	-.00090	.00330	1.43650
1.095	8.553	-1.86940	.44910	.20770	-.02570	.47500	.13660	.03390	-.00140	.00320	2.16170
1.097	10.715	-1.83530	.55330	.24200	-.03400	.58860	.13500	.02420	.00100	.00480	2.28690
1.096	12.663	-1.84310	.65460	.28810	-.04230	.71210	.13280	.02370	-.00070	.00460	2.30720
1.098	15.033	-1.80100	.78390	.34830	-.04680	.84740	.13310	.02450	-.00090	.00390	2.25040
1.099	17.230	-1.82310	.88610	.41460	-.05300	.96920	.13320	.02480	.00130	.00290	2.13710
1.095	21.582	-1.80180	1.04590	.56590	-.06300	1.17750	.13310	.02490	-.00010	.00590	1.87820
GRADIENT		.00643	.06358	.00493	-.01253	.06622	.00074	-.00136	.00042	-.00067	-.10529

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.143	.280	-1.90660	-.02680	.14260	-.04150	-.02660	.14270	.03780	-.00240	-.00340	-.18750
1.151	8.543	-1.85400	.22330	.16140	-.01020	.23470	.14440	.02840	-.00210	.00330	1.38370
1.145	10.708	-1.85250	.44820	.20790	-.03790	.47410	.13990	.03360	-.00090	.00360	2.15640
1.147	12.664	-1.83170	.54910	.24050	-.04250	.58430	.13438	.02910	-.00110	.00440	2.28300
1.147	15.024	-1.82780	.66050	.28650	-.05010	.70780	.13220	.03120	-.00130	.00430	2.30520
1.148	17.233	-1.87340	.77330	.34550	-.06460	.83540	.13320	.02490	-.00170	.00390	2.23820
1.146	21.570	-1.81920	.87030	.40910	-.07080	.95240	.13260	.02430	.00090	.00290	2.12720
1.145	26.790	-1.82550	1.01930	.54160	-.08460	1.14700	.12900	.02290	.00070	.00550	1.89180
GRADIENT		.01067	.05985	.00450	-.01237	.06253	.00041	-.00225	.00007	-.00362	-.37604

(RE7009) 1 02 AUG 75

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0-161 ORBITER + TUFTS

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6300 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 142/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.196	.078	-1.90900	-.02010	.14620	.03540	-.01990	.14630	.04400	-.00150	.00300	-.13730
1.201	.078	-1.88070	.21930	.16210	-.01360	.23070	.14590	.03740	-.00100	.00330	1.35250
1.201	.078	-1.88070	.21930	.16210	-.01360	.23070	.14590	.03740	-.00100	.00330	2.14650
1.195	.078	-1.83370	.44820	.20940	-.04530	.47430	.14650	.02930	-.00160	.00450	2.27250
1.136	.078	-1.53380	.55070	.24250	-.05100	.58620	.13610	.03320	-.00180	.00340	2.28570
1.196	.078	-1.82940	.66120	.28910	-.06090	.70890	.13490	.03360	-.00260	.00150	2.21340
1.195	.078	-1.87210	.76520	.34570	-.07170	.82860	.13670	.04130	-.00350	.00230	2.29950
1.197	.078	-1.92100	.85850	.40910	-.07780	.94110	.13650	.04130	-.00350	.00230	1.87360
1.199	.078	-1.89230	1.00750	.53780	-.07180	1.13460	.13000	.02460	-.00370	.00580	.35657
1.199	.078	.00677	.05729	.00381	-.01173	.05998	-.00022	-.00158	.00012	.00007	

RUN NO. 149/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.239	.052	-1.91460	-.11000	.14740	.02360	-.00980	.14740	.04120	-.00229	.00230	-.06760
1.239	.052	-1.87610	.21010	.16190	-.01840	.22140	.14510	.03240	-.00140	.00320	1.39510
1.236	.052	-1.85320	.42470	.20440	-.04960	.45030	.13930	.02900	-.00100	.00310	2.07750
1.234	.052	-1.83610	.53430	.24000	-.06400	.56950	.13690	.02940	-.00090	.00210	2.22610
1.235	.052	-1.84300	.63910	.28450	-.07610	.68630	.13560	.03690	-.00060	.00340	2.24650
1.235	.052	-1.85510	.73280	.33570	-.08570	.79470	.13600	.02560	-.00100	.00510	2.18350
1.236	.052	-1.90720	.82310	.39430	-.08860	.90280	.13600	.03120	-.00370	.00360	2.08730
1.233	.052	-1.89660	.98000	.52550	-.08960	1.10450	.12920	.02990	-.00570	.00370	.86600
1.233	.052	.00924	.05295	.00327	-.01008	.05551	-.00055	-.00211	.00014	.00017	.32959

RUN NO. 152/ 0 RN/L = 4.20 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.403	.047	-1.90550	-.00600	.14650	.01510	-.00590	.14650	.03440	-.00180	.00190	-.04130
1.403	.047	-1.87340	.20020	.15790	-.02150	.21130	.14260	.03090	-.00070	.00280	1.26760
1.403	.047	-1.84630	.40160	.19850	-.05040	.42650	.13710	.02700	-.00030	.00350	2.02330
1.399	.047	-1.84720	.50310	.23260	-.06410	.53740	.13580	.03640	-.00070	.00160	2.16240
1.399	.047	-1.84190	.60010	.27580	-.07690	.64590	.13400	.03610	-.00050	.00330	2.15510
1.399	.047	-1.85230	.69290	.32040	-.08380	.75310	.13700	.02550	-.00050	.00350	2.08100
1.400	.047	-1.91190	.78190	.37570	-.09130	.85790	.12870	.03190	-.00540	.00320	1.87370
1.399	.047	-1.88170	.94030	.50740	-.09450	1.05890	.12850	.02160	-.00540	.00320	.31419
1.399	.047	.00771	.04350	.00440	-.00879	.05214	-.00069	-.00264	.00026	.00022	

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OF POOR QUALITY

TABULATED DATA - OA161 (ARC 11-97-87-084)

ARC 11-97-87-084 OA161 ORBITER + TUFTS

(RFF7010) 1 02 AUG 75

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6960 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6500 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA =
 ATLRON =

ELEVON = .000
 BCFAP = -7.170

RUN NO. 907 0 RN/L = 4.21 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.535	.098	.1620	-.05630	.05360	.03160	-.05620	.05310	.09070	-.00070	.08010	-1.06200
.535	2.126	.1980	.03640	.05260	.03190	.03930	.05130	.00460	-.00010	.00000	.69120
.535	4.182	.1990	.13060	.05490	.03150	.13420	.04530	.00570	-.00030	-.00010	2.37650
.535	6.250	.21090	.23110	.06170	.02980	.23840	.03620	.00110	-.00060	.00020	3.74520
.535	8.341	.21520	.33780	.07300	.02610	.34480	.02320	.00360	-.00090	.00030	4.92960
.535	10.439	.21610	.44870	.09140	.02370	.45790	.00860	.00250	-.00070	.00050	4.72050
.535	12.529	.21310	.55420	.11740	.02430	.56650	-.00560	.00350	-.00180	.00020	4.02990
.535	14.646	.22930	.65240	.16190	.02430	.67770	-.00260	.00660	-.00230	.00020	3.35960
.535	16.765	.22380	.74540	.22190	.01980	.77770	.00320	.00690	-.00190	.00020	2.89010
.535	18.882	.22350	.84690	.29300	.01270	.89610	.00520	.00700	-.00120	-.00040	2.56630
.535	20.993	.21450	.94380	.36780	.00660	1.01290	.00140	.00840	-.00120	-.00060	2.22750
.535	23.179	.21520	1.05750	.52150	.05360	1.17910	.00140	.00840	-.00140	-.00060	.84177
.535	25.337	.20970	1.04575	.00047	-.00002	.04661	-.00191	.00122	-.00010	-.00005	

RUN NO. 1027 0 RN/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.798	.075	.15930	-.07140	.05720	.04330	-.07130	.05730	-.00020	-.00050	.00020	-1.24770
.798	2.126	.20280	.03140	.05660	.04220	.03350	.05540	.00140	-.00020	.00000	.55440
.798	4.213	.20270	.13780	.06020	.03950	.14190	.05000	.00330	-.00020	.00020	2.28820
.797	6.317	.21180	.25320	.07260	.03240	.25960	.04430	.00410	-.00060	.00010	3.48790
.797	8.434	.21790	.36170	.09500	.02610	.37170	.04090	.00290	-.00020	.00020	3.80630
.798	10.542	.21460	.45580	.12380	.02660	.47080	.03830	.00370	-.00030	.00160	3.69220
.797	12.655	.21040	.53960	.16080	.02880	.56170	.03870	.00830	-.00010	.00010	3.35540
.797	14.791	.22230	.63790	.21240	.02100	.67100	.04250	.00710	-.00160	.00170	3.00350
.798	16.924	.22020	.73540	.27440	.01280	.78340	.04840	.00580	-.00180	.00340	2.68220
.797	19.049	.22760	.81820	.33410	.01490	.88250	.04670	.00770	-.00350	.00260	2.44940
.797	21.183	.22150	.90080	.40050	.02430	.98460	.04780	.00370	-.00460	.00430	2.24920
.798	23.337	.22600	.97850	.50120	.11480	1.09600	.05940	.00190	-.00340	.00340	1.75290
.793	25.484	.21046	.00073	.00090	-.00090	.05152	-.00177	.00065	-.00007	-.00000	.65445

(RE7810) 1 02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS.

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 EDFLAP = -7.170

REFERENCE DATA

SPEF = 2590.000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 108/ 0 RW/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CCL	L/D
8.8	.044	.17530	-.07600	.05090	.04960	-.07590	.05090	.00140	.00030	-.06030	-1.24810
8.9	2.131	.20790	.03160	.05050	.04710	.03380	.03930	-.00020	-.00030	-.00030	-.82270
8.9	4.228	.19270	.14490	.06650	.04150	.14940	.03510	.03510	.00040	-.00030	2.18010
8.9	6.330	.20750	.25530	.08390	.02260	.26400	.03510	.03510	.00040	-.00030	3.05680
8.9	8.444	.21970	.35270	.10710	.02980	.35460	.05410	.00050	.00040	-.00120	3.29380
8.9	10.570	.21940	.44830	.13550	.02970	.46560	.05090	.00040	-.00030	-.00150	3.50890
8.8	12.688	.21300	.53290	.17430	.03070	.55810	.03300	.00040	-.00030	-.00010	3.05550
8.7	14.821	.22200	.62660	.22500	.02030	.66330	.03720	.00040	-.00030	-.00010	2.75510
8.7	16.957	.22550	.72540	.28450	.01390	.77680	.03040	.00040	-.00030	-.00020	2.55010
8.7	19.103	.21920	.81010	.34380	.01780	.87800	.03980	.00040	-.00030	-.00020	2.32520
8.7	21.243	.21650	.88010	.40730	.03000	.96790	.03070	.00420	-.00350	-.00350	2.16110
8.7	23.397	.21390	.93300	.51790	.11220	1.02120	.07130	.00610	-.00210	-.00150	1.78490
8.5	26.397	.00535	.05281	.00134	-.08194	.05386	-.03127	.00089	.00002	-.00025	-.81947

RUN NO. 113/ 0 RW/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CCL	L/D
8.9	.073	.19930	-.05540	.07200	.04530	-.05530	.07210	.00360	.00040	-.00030	-1.76890
9.0	2.153	.20200	.05540	.07560	.03560	.05820	.07310	.00310	.00030	-.00040	-.87830
9.0	4.253	.20980	.17520	.08370	.02940	.18090	.07050	.00030	-.00030	-.00000	2.09320
8.9	6.354	.21190	.27280	.10030	.02600	.28220	.06950	.00380	.00030	-.00030	2.72110
8.9	8.459	.21820	.36900	.12470	.03320	.38040	.05340	.00270	.00050	.00140	2.93510
8.9	10.599	.23160	.46220	.15580	.02280	.48300	.06820	.00640	-.00080	.00160	2.95590
8.9	12.723	.22390	.54960	.19540	.01920	.57910	.06950	.00110	-.00090	-.00070	2.81330
8.9	14.852	.22950	.64930	.24540	.00940	.68080	.07150	.00100	-.00130	-.00130	2.63540
8.9	17.003	.22060	.74030	.30370	.00540	.79670	.07390	.00250	-.00140	-.00140	2.43790
8.9	19.145	.22030	.82440	.36740	.00350	.90300	.07540	.00200	-.00150	-.00150	2.25470
8.9	21.271	.21650	.88300	.42580	.02500	.97730	.07650	.00130	-.00060	-.00060	2.07380
8.9	23.462	.21060	.92070	.54410	.10480	1.04880	.09500	.00090	-.00090	-.00100	1.85540
9.0	26.462	.01231	.05516	.00280	-.00404	.05550	-.03039	.00034	-.00000	-.00000	-.88456

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

(REF 7010) : 02 AUG 76

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
SREF = 935.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = .000
AIRLON = .000
ELEVON = .000
BDFLAP = -7.170

RUN NO. 118/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
9.7	.072	.15080	-.05600	.09770	.05070	-.05590	.09770	.00430	.00000	-.00050	-.57350
9.6	2.159	.20240	.07590	.10230	.03280	.07970	.09440	.00220	-.00050	-.00050	-.74150
9.5	5.262	.20540	.20410	.11350	.01250	.21200	.09310	.00350	-.00050	-.00050	1.79640
9.4	6.383	.21550	.32180	.13030	-.00030	.33430	.09370	.00220	-.00050	-.00050	2.47000
9.3	8.520	.22760	.42800	.15710	-.00750	.44650	.09190	-.00440	.00000	.00170	2.72490
9.2	10.660	.22570	.52330	.18950	-.00990	.54930	.08940	-.00460	.00120	.00130	2.76150
9.1	12.785	.21940	.61300	.23230	-.01230	.64920	.09220	.00180	-.00050	-.00050	2.83580
9.0	14.937	.21660	.71530	.28930	-.01830	.76530	.09500	.00270	.00220	-.00050	2.9490
8.9	17.087	.20700	.83900	.34600	-.02890	.87010	.09420	.01610	.00270	-.00050	2.92330
8.8	19.245	.20100	.92540	.41570	-.03800	.99180	.09420	.01230	.00220	-.00050	2.17800
8.7	21.355	.21670	.93200	.46280	.01150	1.03650	.09180	.01280	.00700	-.00540	2.01390
8.6	23.554	.20570	.93360	.58600	.09760	1.11500	.09780	.01040	.00180	-.00050	1.82740
8.5	25.554	.01239	.00199	.00379	-.00910	.06384	.00039	-.00024	-.00021	.00005	.55462

GRADIENT

RUN NO. 123/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
9.8	.054	.18010	-.04170	.11860	.06250	-.06160	.11870	.00370	.00020	-.00040	-.52010
9.7	2.171	.18210	.07640	.12160	.04030	.08090	.11860	.00430	-.00020	-.00050	-.62220
9.6	4.272	.20400	.23480	.13490	.01770	.21430	.11830	.00420	-.00040	-.00050	1.51820
9.5	6.397	.21670	.33950	.15350	-.00220	.34450	.11890	.00170	-.00070	.00030	2.14540
9.4	8.547	.22430	.44510	.18140	-.01570	.46720	.11320	.00350	-.00050	.00120	2.45370
9.3	10.704	.21760	.55450	.21730	-.02520	.58520	.11050	.00350	.00170	.00210	2.55210
9.2	12.865	.21910	.66180	.26680	-.03280	.70450	.11570	.00500	.00120	.00250	2.62230
9.1	14.993	.21930	.76900	.33120	-.03700	.81800	.11530	.00500	.00220	.00250	2.75240
9.0	17.193	.21930	.89700	.35550	-.04070	.93520	.11460	.00620	.00330	.00250	2.83010
8.9	19.399	.22250	.94330	.45050	-.04260	1.04110	.11250	.00600	.00330	.00250	2.83650
8.8	21.425	.22700	1.02800	.51900	-.03970	1.14550	.10750	.01190	.00350	.00250	1.97830
8.7	23.425	.20690	.99780	.68690	.07210	1.17300	.11300	.00900	.00120	.00030	1.59150
8.6	25.637	.00556	.00319	.00386	-.01062	.06541	.01044	.00012	-.00014	.00002	.48332

GRADIENT

(RE70101) (02 AUG 76)

ARC 11-97-87-084 OAR61 ORBITER + TUFTS

PARAMETRIC DATA

BETA = .000
ELEVON = .000
BDLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 CM.FT.
LREF = 474.8000
BREF = 936.6000 IN.
SCALE = .0300

XMRP = 1075.6808 IN. XO
YMRP = .0000 IN. YO
ZMRP = .375.0000 IN. ZO

RUN NO. 128/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.049	.082	.15690	-.04480	.13960	.05750	-.04460	.13960	-.08040	-.00030	-.00030	-.32090
1.054	2.171	.19930	.09580	.14820	.02570	.10130	.14440	.06340	-.00010	-.00020	.64650
1.059	4.287	.19680	.22640	.15770	.01250	.23760	.14040	.00710	.00010	-.00020	1.43530
1.059	8.412	.21610	.34550	.17940	-.01620	.36840	.13960	-.08010	-.00060	-.00020	1.93140
1.059	8.565	.21860	.45591	.20510	-.02620	.48130	.13490	.09580	.00040	.00040	2.22250
1.048	10.722	.23270	.56041	.24080	-.03380	.59240	.13230	-.00050	.00100	.00200	2.32710
1.048	12.888	.22980	.66820	.29070	-.04270	.71610	.12460	-.00070	-.00030	.00090	2.29830
1.048	15.038	.22220	.77470	.34870	-.05070	.83670	.12370	.00560	-.00070	.00090	2.22170
1.049	17.215	.21950	.88600	.41430	-.05980	.96890	.13350	.00350	-.00110	.00230	2.04010
1.046	19.379	.22130	.99720	.49370	-.07470	1.10450	.13480	.00470	-.00040	.00070	1.90560
1.043	21.531	.20930	1.08240	.56800	-.07670	1.21540	.13410	.00590	-.00030	-.00040	1.58480
1.041	26.752	.21260	1.11770	.70530	-.00120	1.31550	.12670	.00220	-.00030	-.00030	.47255
	GRADIENT	.00947	.06449	.00430	-.03308	.05711	.00019	.00178	.00010	.00002	

RUN NO. 133/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.057	.074	.15790	-.04200	.13880	.05230	-.04180	.13890	-.00040	-.00040	-.00030	-.30280
1.100	2.162	.19230	.09940	.14450	.02090	.10480	.14050	.01070	.00050	.00000	.68780
1.097	4.291	.20960	.22650	.16070	.00040	.23790	.14330	.00270	-.00040	-.00020	1.40990
1.098	6.442	.21770	.34480	.18080	-.01770	.36280	.14110	.00110	-.00080	-.00020	1.90730
1.096	8.568	.22720	.45020	.20780	-.02650	.47610	.13840	.00110	-.00050	.00010	2.16640
1.097	10.728	.22130	.55680	.24200	-.03570	.59210	.13410	.00080	.00090	.00220	2.30090
1.097	12.893	.21720	.67090	.29020	-.04720	.71870	.13330	.00060	.00000	.00140	2.31210
1.097	15.060	.20540	.78660	.34890	-.05690	.85020	.12250	.00350	-.00050	.00290	2.25440
1.097	17.236	.21250	.90020	.41860	-.07050	.98380	.13110	.00730	-.00120	.00240	2.13050
1.099	19.387	.21480	.98360	.46780	-.07240	1.08970	.13370	.00650	-.00270	-.00140	2.01620
1.094	21.529	.20220	1.04790	.55680	-.06390	1.17910	.13340	.01380	.00400	-.00240	1.88490
1.096	26.781	.20610	1.14960	.72470	-.03440	1.35230	.12900	.00200	.00050	-.00100	1.58620
	GRADIENT	.00988	.06365	.00520	-.01230	.05634	.00104	.00072	-.00000	.00002	.40987

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + TUFTS

(RE7010) (02 AUG 78)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0800

BETA = .000 ELEVON = .000
ALFON = .000 BDEFAP = -7.170

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.147	.067	.14780	-.02990	.14300	-.04358	-.02970	.14300	.06550	-.00020	-.00040	-.20880
1.150	2.150	.20314	.09810	.14850	.01490	.10360	.14700	.00150	-.00050	-.00030	.58050
1.150	4.271	.20080	.22230	.16400	-.00650	.23370	.14400	.00590	-.00030	-.00010	1.38110
1.148	6.393	.20500	.33770	.18880	-.02530	.35570	.14310	.00710	-.00010	-.00040	1.86750
1.147	8.551	.22340	.44770	.20700	-.03800	.47390	.13910	.00420	-.00060	-.00020	2.16270
1.147	10.716	.22800	.55020	.23900	-.04250	.58500	.13250	.00230	-.00050	-.00180	2.30220
1.146	12.874	.21780	.66280	.28600	-.05070	.70910	.13130	.00130	-.00040	-.00110	2.31460
1.146	15.036	.21550	.76120	.34070	-.05690	.82350	.13160	.00530	-.00050	-.00050	2.23380
1.148	17.209	.21490	.86480	.40690	-.06850	.94650	.13420	.00870	-.00150	-.00060	2.12560
1.144	19.369	.21970	.95920	.47590	-.07430	1.06180	.13420	.00580	-.00230	-.00070	2.01330
1.146	21.513	.20940	1.04470	.53920	-.06130	1.14170	.12350	.00420	-.00120	-.00040	1.88240
1.146	23.783	.20400	1.14020	.71090	-.04360	1.33820	.12380	.00840	-.00040	-.00050	1.60400
1.145	25.783	.01257	.05899	.00429	-.01241	.06266	.00724	-.00074	-.00002	-.00000	.37813

GRADIENT

RUN NO. 143/ 0 RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.197	.071	.15820	-.02060	.14620	-.03590	-.02050	.14620	.00360	-.00020	-.00000	-.14120
1.201	2.150	.19470	.09910	.14970	.01020	.10470	.14580	.00850	-.00020	-.00010	.66230
1.193	4.266	.21920	.24820	.16450	-.01190	.28960	.14490	.00350	-.00050	-.00000	1.35070
1.196	6.392	.21920	.33670	.18130	-.03170	.35480	.14270	.00220	-.00050	-.00030	1.85670
1.195	8.536	.22850	.44900	.20840	-.04650	.47500	.13920	.00360	-.00060	-.00050	2.15490
1.195	10.718	.23860	.55270	.24210	-.05110	.58810	.13580	.01020	-.00150	-.00120	2.28340
1.194	12.889	.20430	.65980	.28740	-.05940	.70730	.13520	.00730	-.00030	-.00040	2.23600
1.195	15.059	.20830	.75630	.34350	-.06730	.81950	.13550	.00810	-.00080	-.00050	2.50150
1.195	17.203	.20660	.85340	.40760	-.07650	.93570	.13680	.00550	-.00150	-.00070	2.09380
1.193	19.357	.20660	.94270	.47430	-.08040	1.04660	.13500	.00680	-.00170	-.00030	1.98770
1.189	21.496	.19510	1.09400	.53820	-.07450	1.13610	.13100	.00390	-.00030	-.00150	1.87530
1.189	23.773	.19250	1.12460	.69990	-.04740	1.31930	.11330	.01070	-.00040	-.00010	1.60880
1.187	25.773	.04200	.05693	.00355	-.01137	.05962	-.00731	-.00003	-.00007	-.00000	.35557

GRADIENT

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 148/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.297	.055	.17530	-.01130	.14570	.02510	-.01120	.14580	-.00780	-.00210	.00000	-.07710
1.300	2.1635	.22590	.09850	.14930	.00380	.10180	.14560	-.01020	-.00240	-.00010	.64610
1.299	4.2338	.18790	.20830	.15990	-.01650	.21950	.14410	.01350	-.00010	.00010	1.30280
1.297	6.3611	.21120	.31790	.17950	-.03500	.33570	.14220	.00430	-.00100	.00010	1.78990
1.297	8.515	.21300	.42270	.20300	-.04840	.44610	.13810	.01050	-.00030	-.00030	2.08270
1.295	10.684	.21010	.53470	.23850	-.06360	.56960	.13530	.01240	-.00020	-.00060	2.24110
1.293	12.835	.22300	.64110	.28430	-.07550	.68830	.13480	.00090	-.00130	.00130	2.25480
1.293	14.992	.22010	.72950	.33420	-.08140	.79120	.13410	.00830	-.00080	.00090	2.18280
1.296	17.160	.22930	.82150	.39480	-.09000	.90140	.13490	.00170	-.00220	.00040	2.08080
1.293	19.313	.22130	.90460	.45770	-.09880	1.00500	.13280	.00280	-.00160	.00080	1.97630
1.295	21.466	.21070	.97860	.52370	-.09080	1.10230	.12920	.00530	-.00120	.00070	1.86870
1.291	26.768	.21870	1.11790	.69890	-.07150	1.31290	.12050	.00000	-.00140	.00130	1.59960
	GRADIENT	.00294	.05249	.00396	-.00394	.05515	-.00055	.00511	-.00048	.00002	.32979

RUN NO. 153/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.402	.032	.13590	-.00770	.14520	.01610	-.00760	.14520	-.01520	-.00080	.00020	-.05320
1.405	2.1111	.26260	.09440	.14750	-.00250	.09980	.14390	-.02580	-.00330	-.00050	1.64000
1.402	4.222	.23472	.20160	.15700	-.02090	.21260	.14180	.01060	-.00180	-.00020	1.28400
1.402	6.341	.24140	.30310	.17380	-.03730	.32057	.13930	.01210	-.00200	-.00010	1.74390
1.399	8.499	.23350	.40370	.19820	-.05070	.42860	.13640	.00310	-.00090	.00070	2.03650
1.398	10.653	.22220	.50130	.23060	-.06310	.53530	.13390	.00440	-.00020	-.00020	2.17440
1.400	12.813	.22820	.60350	.27400	-.07720	.64920	.13330	.00190	-.00070	.00000	2.20250
1.399	14.960	.20760	.69610	.32140	-.08610	.75550	.13080	.01420	-.00030	-.00070	2.16590
1.399	17.123	.22820	.78430	.37610	-.09320	.86030	.12850	.00176	-.00150	.00010	2.08510
1.396	19.280	.23000	.86890	.43770	-.09710	.96470	.12630	.00260	-.00140	.00060	1.98520
1.395	21.433	.19440	.93900	.50100	-.09450	1.05720	.12320	.01290	-.00070	.00070	1.87450
1.398	26.743	.19990	1.08530	.67810	-.07890	1.27340	.11550	.00850	-.00020	.00090	1.60510
	GRADIENT	.02342	.04996	.00282	-.00883	.05256	-.00061	-.00612	-.00062	-.00099	.31915

TABULATED DATA - 0A161 (ARC 11-87-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

(RE7011) (02 AUG 76)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = 0.0000 IN. YO
 BREF = 938.8000 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0360

BETA = 2.009 ELEVON = .000
 ALLRON = .080 EDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEB	L/D
.594	.092	2.24710	-.05750	.03040	-.05740	.05250	-.03250	.00210	-.00160	-1.09600
.595	4.193	2.29470	.13210	.02950	.13580	.04550	-.03310	.00150	-.00260	2.59070
.596	8.368	2.30870	.34050	.02430	.34750	.02300	-.03430	.00160	-.00340	4.64420
.597	10.488	2.32610	.44890	.02250	.45790	.02790	-.03100	.00210	-.00490	4.93540
.598	12.628	2.30950	.56740	.02150	.57400	.03600	-.02950	.00280	-.00480	4.69480
.599	14.765	2.29170	.66310	.02420	.68400	.04260	-.02720	.00850	-.00580	3.94450
.599	16.896	2.27180	.75650	.01840	.78980	.06260	-.02680	.00120	-.00590	3.33220
.599	21.095	2.27770	.84622	.00490	.88400	.10270	-.02700	.00150	-.00700	2.57080
.594	GRADIENT	.01650	.04622	-.00022	.04710	-.00173	-.00815	-.00015	-.00024	.65000

RUN NO. 1034 0 RUN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEB	L/D
.797	.058	2.26270	-.07180	.04180	-.07180	.05730	-.03440	.00240	-.00120	-1.25470
.799	4.231	2.30980	.13870	.03820	.14280	.05020	-.03310	.00210	-.00270	2.29960
.797	8.464	2.31870	.36510	.02480	.37520	.04080	-.03220	.00290	-.00140	3.81910
.799	10.580	2.32860	.45140	.02600	.46560	.03950	-.03150	.00250	-.00230	3.62580
.797	12.744	2.31280	.54580	.02740	.56840	.03870	-.02900	.00110	-.00330	3.34510
.798	14.891	2.32340	.64490	.01970	.67880	.04320	-.03000	.00100	-.00410	2.98230
.797	17.061	2.33640	.74120	.01180	.78970	.04710	-.03270	-.00340	-.00540	2.57860
.797	21.293	2.31750	.89950	.02310	.98280	.04470	-.02500	-.00880	-.00610	2.25710
.794	GRADIENT	.01129	.05047	-.00086	.05145	-.00170	.00031	-.00007	-.00036	.84989

RUN NO. 1074 0 RUN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEB	L/D
.849	.045	2.28440	-.07610	.04810	-.07600	.06080	-.03760	.00240	-.00100	-1.25330
.848	4.243	2.30530	.14610	.03970	.15080	.05570	-.03570	.00210	-.00260	2.18990
.847	8.477	2.31200	.35950	.02730	.37140	.05300	-.03120	.00230	-.00150	3.35310
.847	10.582	2.31800	.44310	.03000	.46050	.05200	-.02770	.00190	-.00290	3.28260
.846	12.762	2.31500	.53890	.02940	.56230	.05400	-.03400	-.00300	-.00400	3.06470
.846	14.905	2.32840	.63070	.02000	.66770	.05640	-.03370	.00220	-.00390	2.78800
.846	17.064	2.33130	.72810	.01450	.78010	.05960	-.03320	.00050	-.00410	2.54520
.847	21.339	2.33810	.88480	.03150	.97330	.06030	-.02030	-.00940	-.00720	2.15610
.845	GRADIENT	.00498	.05292	-.00206	.05397	-.00121	.00045	-.00097	-.00038	.62304

(RE7011) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRRON = .000 BDFLAP = -7.370

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6880 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 376.0000 IN. ZO
 SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.899	.074	2.27510	-.05880	.07150	.04330	-.05870	.07150	-.04290	.00270	.00028	-.82280
.898	.4.256	2.31300	.17120	.08230	.02780	.17680	.06940	-.03740	.00298	-.00070	2.07940
.897	8.498	2.32430	.37840	.12740	.01850	.39310	.07010	-.03510	.00130	-.00230	2.97090
.896	10.620	2.33320	.45768	.15860	.02290	.47840	.06868	-.03350	.00030	-.00320	2.94050
.895	12.779	2.33260	.55290	.19640	.01900	.58250	.06890	-.03890	.00090	-.00390	2.82060
.894	14.940	2.33290	.65580	.25100	.00798	.69840	.07350	-.03040	.00310	-.00390	2.61260
.893	17.125	2.34430	.74750	.30750	.00440	.80490	.07380	-.02860	.00710	-.00370	2.43180
.892	21.375	2.32550	.88900	.43020	.02530	.98460	.07668	-.02450	.01050	-.00460	2.06640
.901		.00906	.05500	.00258	-.00371	.05632	-.06050	.08132	.00005	-.00022	.69484

GRADIENT

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.946	.054	2.24540	-.05560	.09700	.04960	-.05650	.09710	-.02680	.00100	-.00250	-.58380
.945	4.279	2.29960	.28910	.11420	.01278	.21210	.09860	-.02520	.00050	-.00190	1.78810
.943	8.502	2.31400	.41930	.15160	-.00110	.43310	.08830	-.03170	.00080	-.00090	2.74000
.944	10.682	2.31880	.51710	.18958	-.00660	.54330	.09048	-.02880	.00070	-.00278	2.78820
.944	12.845	2.29760	.61010	.23110	-.00900	.64620	.08970	-.02410	.00310	-.00320	2.64000
.946	14.999	2.30800	.71130	.28640	-.01900	.76120	.08250	-.01290	.00410	-.00320	2.32490
.944	17.206	2.31650	.81070	.34870	-.01980	.87750	.09340	-.01670	.00390	-.00400	2.00810
.942	21.432	2.29270	.93250	.46440	.01150	1.03780	.09128	-.01240	.00480	-.00450	.56372
GRADIENT		.01189	.06185	.00408	-.00875	.06372	.00035	.00038	.00012	.00014	

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.979	.058	2.25750	-.06150	.11850	.06100	-.08440	.11850	-.02680	.00120	-.00310	-.51990
.982	4.286	2.31030	.20300	.13260	.01748	.21230	.11700	-.02940	.00020	-.00340	1.93130
.981	8.571	2.31510	.44390	.18258	-.01420	.46528	.11430	-.02530	.00020	-.00130	2.43288
.980	10.729	2.31650	.55378	.21740	-.02460	.58450	.11060	-.03010	.00120	-.00140	2.54690
.977	12.888	2.28810	.65890	.26470	-.03268	.70230	.11080	-.02230	.00028	-.00200	2.49320
.982	15.051	2.33690	.76160	.32240	-.05720	.81920	.11350	-.02308	.00370	-.00190	2.36200
.978	17.270	2.33750	.86240	.38430	-.04080	.93760	.11090	-.01690	.00320	-.00320	2.24430
.977	21.553	2.31690	1.02760	.52160	-.03700	1.14740	.10750	-.00950	.01158	-.00700	1.97820
GRADIENT		.01266	.06275	.00334	-.01034	.06491	-.00035	-.00062	.00024	-.00007	.48646

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUEFS

(RE7011) (02 AUG 76

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XPRP = 1078.5800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = 2.000 ELEVON = .000
AILRON = .000 BDF LAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.051	.073	2.25720	-.04570	.14060	.05620	-.04550	.14070	-.03260	.00070	-.00450	-.32480
1.056	.235	2.30070	.22940	.16000	.03010	.23680	.14270	-.02360	-.00040	-.00370	1.40910
1.047	4.295	2.31650	.45480	.26570	-.02550	.48050	.13550	-.02760	-.00050	-.00200	2.21050
1.048	8.590	2.31570	.56160	.24270	-.03430	.59700	.13360	-.02890	-.00020	-.00210	2.31420
1.049	10.731	2.29260	.66800	.29130	-.04280	.71620	.13460	-.02440	-.00130	-.00300	2.29290
1.047	12.921	2.29260	.77440	.34790	-.04780	.83830	.13420	-.02660	-.00200	-.00320	2.22550
1.049	15.098	2.33630	.88930	.41760	-.05940	.97330	.13380	-.01960	-.00500	-.00600	2.12930
1.049	17.330	2.32890	1.08300	.56780	-.07490	1.21600	.12870	-.01980	-.08908	-.00370	1.98740
1.039	21.625	2.32360	1.08300	.56780	-.07490	1.21600	.12870	-.01980	-.08908	-.00370	1.98740
GRADIENT		.01030	.06421	.00460	-.01329	.06887	.00047	.00213	-.00026	.00019	.41059

RUN NO. 127 0 RNAL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.098	.075	2.26190	-.03590	.14470	.05040	-.03670	.14480	-.02710	.00250	-.00420	-.25520
1.100	4.298	2.30110	.22580	.16500	-.00290	.23750	.14760	-.01940	.00130	-.00380	1.36820
1.097	8.589	2.31760	.44660	.21340	-.02900	.47340	.14390	-.02710	.00120	-.00200	2.08270
1.098	10.744	2.31590	.54790	.24640	-.03550	.58420	.13990	-.02930	.00190	-.00230	2.22380
1.096	12.916	2.30300	.65890	.29320	-.04500	.70770	.13850	-.03240	.00060	-.00350	2.24690
1.097	15.106	2.37280	.78510	.35060	-.05690	.84940	.13380	-.03860	.00180	-.00130	2.23970
1.098	17.750	2.25400	.79890	.36340	-.05960	.86750	.13270	-.03930	.00080	-.00160	2.18990
1.097	19.337	2.35510	.88170	.41870	-.05620	.97600	.13390	-.03210	-.00280	-.00080	2.12970
1.097	21.620	2.33180	1.04840	.55750	-.03600	1.18010	.13200	-.03150	-.00420	-.00020	1.88060
GRADIENT		.00928	.06220	.00481	-.01255	.06492	.00066	.00182	-.00028	.00009	.38455

RUN NO. 134 0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.150	.067	2.27160	-.03200	.14360	.04310	-.03180	.14360	-.03480	.00100	-.00390	-.22270
1.149	4.282	2.32880	.22630	.16090	-.00870	.23170	.14400	-.03510	-.00090	-.00370	1.35940
1.147	8.584	2.31640	.45040	.20990	-.03890	.47610	.13950	-.02540	-.00130	-.00390	2.15550
1.147	10.742	2.31640	.54960	.24070	-.04280	.58480	.13410	-.02460	.00010	-.00370	2.28320
1.145	12.921	2.30450	.65870	.28580	-.04900	.70630	.13290	-.01770	.00010	-.00210	2.30620
1.145	15.107	2.37430	.78960	.34520	-.05030	.83290	.13270	-.03120	.00020	-.00100	2.22950
1.147	17.328	2.35560	.87030	.40990	-.05000	.95290	.13210	-.02930	-.00270	-.00248	2.12890
1.151	21.605	2.32000	1.01930	.54120	-.05000	1.14690	.12790	-.01180	-.00930	-.00520	1.88320
GRADIENT		.01357	.05886	.00410	-.01229	.06852	.00008	-.00007	-.00045	.00005	.37775

(RE7011) (02 AUG 78)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ATLON = .000 BDLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09# 1

ARC 11-97-87-09# 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XRRP = 1076.6800 IN. XO
LREF = 479.8000 IN. YRRP = .0000 IN. YO
BREF = 936.6800 IN. ZRRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 144 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.194	.061	2.28330	-.02380	.14610	.03670	-.02370	.14610	-.03850	.00060	-.00340	-.16300
1.200	4.278	2.31140	.21760	.16170	-.01280	.22910	.14500	-.02750	-.00020	-.00350	1.34620
1.193	8.580	2.31470	.45010	.20940	-.04610	.47830	.13990	-.02200	-.00060	-.00420	2.14980
1.194	10.745	2.31640	.56300	.24290	-.05080	.58850	.13520	-.02460	-.00050	-.00380	2.28100
1.193	12.920	2.30170	.68020	.28880	-.05960	.70810	.13390	-.03160	-.00150	-.00150	2.28630
1.196	15.100	2.33400	.76100	.34570	-.06930	.82480	.13580	-.02430	-.00020	-.00200	2.20160
1.193	17.312	2.34380	.85880	.41040	-.07690	.94200	.13630	-.02170	-.00270	-.00280	2.09250
1.196	21.595	2.31930	1.00740	.53900	-.07490	1.13500	.13040	-.01420	-.00860	-.00490	1.86850
		.00865	.05724	.00370	-.01174	.05995	-.02026	-.00261	-.00019	-.00002	.35788

RUN NO. 1474 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.299	.030	2.27130	-.01360	.14760	.02510	-.01360	.14760	-.02200	.00120	-.00220	-.09230
1.299	4.250	2.33180	.20880	.16060	-.01640	.21990	.14700	-.03970	-.00230	-.00340	1.29860
1.297	8.548	2.32840	.42500	.20330	-.04630	.45050	.13790	-.03230	-.00220	-.00380	2.08990
1.295	10.708	2.31850	.53380	.23910	-.05430	.57090	.13540	-.02360	-.00170	-.00200	2.24060
1.292	12.894	2.29320	.64380	.28550	-.05990	.69430	.13470	-.02580	-.00210	-.00300	2.25480
1.296	15.056	2.33750	.73550	.33660	-.07590	.79770	.13400	-.02460	-.00310	-.00350	2.18530
1.295	17.276	2.34300	.82750	.39710	-.08880	.90810	.13340	-.02390	-.00380	-.00220	2.08400
1.295	21.567	2.32760	.98100	.52630	-.09060	1.10580	.12890	-.02300	-.00850	-.00230	1.86390
		.00433	.03264	.00308	-.00983	.05532	-.00069	-.00419	-.00083	-.00028	.32953

RUN NO. 1547 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.399	.031	2.28250	-.00940	.14670	.01990	-.00990	.14670	-.03650	.00010	-.00260	-.08160
1.400	4.234	2.30480	.20060	.15750	-.02190	.21190	.14220	-.01960	.00010	-.00290	1.27940
1.396	8.524	2.31710	.40460	.19800	-.05080	.42940	.13580	-.02140	-.00060	-.00360	2.04330
1.395	10.579	2.33440	.50500	.23160	-.05470	.53920	.13400	-.02820	-.00150	-.00220	2.18940
1.395	12.855	2.30730	.60790	.27590	-.07870	.65410	.13370	-.02910	-.00190	-.00170	2.28310
1.397	15.021	2.35510	.69800	.32870	-.08570	.75780	.13080	-.02730	-.00360	-.00230	2.16260
1.398	17.244	2.34260	.78790	.37880	-.09270	.86480	.12820	-.01920	-.00310	-.00250	2.08010
1.395	21.535	2.33320	.94230	.50350	-.09440	1.08130	.12240	-.02420	-.00780	-.00240	1.87160
		.00535	.04995	.00257	-.00890	.05259	-.00107	-.00402	.00000	-.00017	.31029

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

(RE7012) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.6000 IN. XMRP = 8000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.101	5.34530	-.05390	.04970	-.02510	-.05380	.84980	-.08990	.00650	-.00290	-1.08550
.596	.4.223	5.37960	.13590	.06310	.02490	.13940	.04290	-.08620	.00640	-.00840	-2.56040
.595	8.397	5.39840	.34090	.07340	.02120	.34800	.02280	-.08490	.00590	-.00830	4.61500
.594	10.816	5.37880	.45100	-.09080	.01970	.46000	.00700	-.08150	.00580	-.01090	4.95370
.593	12.637	5.38210	.56760	.11950	.01660	.58080	-.00730	-.08200	.00560	-.04180	4.74980
.592	14.759	5.37890	.68820	.16840	.01290	.68900	-.00610	-.08180	.00350	-.01300	3.96770
.591	16.867	5.37870	.75510	.22250	.01210	.78720	-.00460	-.08430	.00530	-.01140	3.39430
.590	21.070	5.38640	.86100	.35530	-.00010	.1.02810	-.00460	-.09060	.00730	-.00990	2.63950
GRADIENT		.00832	.04605	.00082	-.00015	.04688	-.00167	.00090	-.00002	-.00061	-.88461

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.796	.085	5.35680	-.06590	.05520	-.03620	-.06598	.05530	-.09380	.00760	-.00260	-1.19540
.795	.4.252	5.39470	.14290	.05920	.03270	.14690	.04840	-.09010	.00740	-.00570	-2.41600
.794	8.489	5.40380	.36828	.09450	.02210	.37820	.03910	-.08770	.00690	-.00550	3.89650
.793	10.625	5.39560	.49908	.12550	.02180	.47430	.03870	-.08550	.00530	-.00720	3.63840
.792	12.752	5.39520	.59210	.16490	.01948	.57490	.03890	-.08580	.00350	-.00830	3.34860
.791	14.882	5.40140	.64500	.21410	.01510	.67840	.04130	-.08580	.00120	-.00940	3.01260
.790	17.016	5.42610	.74530	.27360	.00960	.79280	.04350	-.08710	-.00310	-.00920	2.72480
.789	21.273	5.44740	.90580	.39690	.02410	.98820	.04120	-.08370	-.01290	-.00990	2.28270
GRADIENT		.00808	.05010	.00096	-.00084	.05106	-.00168	.00089	-.00065	-.00074	-.88854

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.797	.093	5.37330	-.06670	.05550	-.03840	-.06670	.05560	-.09540	.00770	-.00280	-1.20130
.849	.4.268	5.40070	.14960	.06610	.03410	.15410	.04780	-.09320	.00840	-.00530	-2.26340
.861	8.508	5.40740	.38460	.10680	.02390	.37940	.04700	-.08700	.00630	-.00600	3.41290
.844	10.637	5.40890	.44930	.13540	.02400	.46660	.05010	-.08680	.00410	-.00730	3.31840
.848	12.771	5.40820	.54050	.17660	.02250	.56820	.05270	-.08620	.00330	-.00860	3.06140
.847	14.904	5.41630	.63680	.22940	.01560	.67340	.05410	-.08950	-.00110	-.00950	2.82480
.849	17.042	5.42680	.73130	.28330	.01220	.78230	.05650	-.08170	.00600	-.00760	2.58180
.842	21.305	5.45100	.88950	.40330	.03109	.97520	.05250	-.07830	-.01500	-.01120	2.23960
GRADIENT		.00653	.05168	.00293	-.00155	.05276	-.00019	.00093	.00017	-.00065	-.82784

(RE7012) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A151 (ARC 11-97-87-094)
ARC 11-97-87-094 0A151 ORBITER + TUFTS

REFERENCE DATA

SREF = 2530.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 115/ 0 RMYL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.895	.084	5.35590	-.05790	.07100	.03220	-.05780	.07110	-.10180	-.00960	-.00340	-.81560
.902	.273	5.40498	.17620	.08950	.02050	.18190	.07010	-.09830	-.00920	-.00260	2.11010
.900	.854	5.40860	.37190	.12370	.01930	.38620	.05730	-.08630	-.00550	-.00710	3.00580
.898	10.655	5.40110	.46110	.19530	.01820	.48190	.08730	-.08700	-.00380	-.00790	2.96980
.896	12.787	5.40380	.55290	.19690	.01350	.58270	.08960	-.08730	-.00190	-.00840	2.80820
.896	14.921	5.42410	.64680	.24240	.00810	.68750	.05770	-.09130	-.00250	-.00840	2.65850
.899	17.070	5.43920	.74670	.30230	.00478	.80860	.05970	-.07850	-.01600	-.01180	2.47050
.895	21.343	5.45930	.89320	.42400	.02700	.98630	.05980	-.07270	-.01850	-.01180	2.10570
		.00931	.05585	.00298	-.08698	.03720	-.00024	.00084	-.00010	-.00072	.69812

RUN NO. 116/ 0 RMYL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.952	.084	5.35590	-.06140	.10190	.05140	-.06130	.10200	-.08430	-.00690	-.00310	-.60290
.946	.234	5.40510	.19560	.11190	.01580	.20240	.09700	-.09040	-.00560	-.00500	1.74750
.946	7.796	5.38860	.35590	.14130	.00100	.37160	.09230	-.08750	-.00560	-.00440	2.51910
.942	10.709	5.40270	.50430	.18420	.00180	.52970	.08730	-.08000	-.00660	-.00770	2.73810
.943	12.860	5.38150	.61870	.23340	.00160	.65560	.08900	-.06800	-.00280	-.00860	2.65060
.948	14.936	5.41050	.70820	.28110	.00130	.75660	.08820	-.07300	-.00220	-.00320	2.51990
.947	17.158	5.41620	.81820	.34760	.00080	.88430	.09080	-.06210	-.00720	-.00320	2.32350
.935	21.415	5.43130	.93330	.46050	.01920	1.03700	.08790	-.06300	-.01040	-.00150	2.03880
		.01193	.08119	.00238	-.00848	.06302	-.00119	.00145	-.00014	-.00002	.59961

RUN NO. 125/ 0 RMYL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.979	.085	5.37550	-.05760	.11620	.05510	-.05740	.11630	-.08120	-.00450	-.00670	-.49600
.978	.304	5.40310	.20240	.12980	.01480	.21160	.11420	-.07750	-.00350	-.00590	1.55990
.980	6.450	5.40800	.32990	.15230	.00100	.34490	.11430	-.07980	-.00300	-.00600	2.18330
.979	8.591	5.40800	.44000	.18020	.01190	.46200	.12500	-.08180	-.00420	-.00590	2.34150
.978	10.756	5.38280	.59030	.21240	.00210	.58020	.16000	-.07370	-.00370	-.00820	2.59080
.977	12.885	5.39370	.66340	.25620	.00100	.69410	.14000	-.07220	-.00300	-.00850	2.84990
.977	15.055	5.39420	.76260	.31560	.00070	.81840	.15700	-.06500	-.00190	-.00860	2.41610
.976	17.202	5.41940	.85100	.37220	.00050	.92310	.16390	-.05800	-.00100	-.00860	2.28630
.953	21.504	5.44860	.97100	.51250	.02950	1.13420	.16390	-.04940	-.01930	-.00710	1.98490
		.00654	.06162	.00322	-.00955	.06379	-.00050	.00089	-.00024	-.00014	.48721

(197012) (02 AUG 76)

PARAMETRIC DATA

ETA = 5.000 ELEVON = .000
 ALTRON = .000 BDFLAP = -7.170

TABULATED DATA - CA181 (ARC 11-97-87-094)

ARC 11-97-87-094 CA181 ORBITER + TUFTS

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 986.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

RUN NO. 126/ 0. RUN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.051	.094	5.38210	-.04220	.13970	.05060	-.04200	.13970	-.08520	.00530	-.00970	-.30210
1.049	.321	5.41230	-.28530	.15670	-.00050	-.23640	.13930	-.07840	.00190	-.00940	1.43750
1.045	8.615	5.44100	.45630	.20600	-.02610	.46210	.13530	-.07550	.00130	-.00710	2.21510
1.040	10.785	5.46970	.56310	.24210	-.03430	.59850	.13250	-.07440	.00040	-.00880	2.22570
1.038	12.934	5.49840	.67080	.28880	-.04120	.71780	.12960	-.07400	.00050	-.00870	2.23730
1.036	15.096	5.52710	.77480	.34380	-.04870	.83470	.12670	-.07490	.00020	-.00920	2.24450
1.034	17.258	5.55580	.86980	.40650	-.05620	.95150	.12380	-.07490	.00020	-.00920	2.25170
1.032	19.420	5.58450	.96480	.46930	-.06370	1.06830	.12090	-.07490	.00020	-.00920	2.25890
1.030	21.582	5.61320	1.05980	.53210	-.07120	1.18510	.11800	-.07490	.00020	-.00920	2.26610
1.028	23.744	5.64190	1.15480	.59490	-.07870	1.30190	.11510	-.07490	.00020	-.00920	2.27330
1.026	25.906	5.67060	1.24980	.65770	-.08620	1.41870	.11220	-.07490	.00020	-.00920	2.28050
1.024	28.068	5.69930	1.34480	.72050	-.09370	1.53550	.10930	-.07490	.00020	-.00920	2.28770
1.022	30.230	5.72800	1.43980	.78330	-.10120	1.65230	.10640	-.07490	.00020	-.00920	2.29490
1.020	32.392	5.75670	1.53480	.84610	-.10870	1.76910	.10350	-.07490	.00020	-.00920	2.30210
1.018	34.554	5.78540	1.62980	.90890	-.11620	1.88590	.10060	-.07490	.00020	-.00920	2.30930
1.016	36.716	5.81410	1.72480	.97170	-.12370	2.00270	.10000	-.07490	.00020	-.00920	2.31650
1.014	38.878	5.84280	1.81980	1.03450	-.13120	2.11950	.10000	-.07490	.00020	-.00920	2.32370

RUN NO. 140/ 0. RUN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.100	.086	5.35520	-.03580	.14100	.04480	-.03650	.14100	-.08270	.00560	-.00960	-.26020
1.100	.324	5.38390	-.23070	.16180	-.07110	-.24220	.14390	-.07250	.00320	-.00900	1.42550
1.097	8.608	5.41260	.44820	.21820	-.07750	.47460	.14070	-.07420	.00320	-.00900	2.13210
1.093	10.785	5.44130	.55490	.24490	-.08380	.59530	.13590	-.07270	.00110	-.00940	2.28440
1.089	12.934	5.46990	.66160	.27160	-.08990	.71600	.13080	-.07180	.00020	-.00940	2.23070
1.085	15.096	5.49860	.76830	.30830	-.09600	.83670	.12560	-.07290	.00020	-.00940	2.14350
1.081	17.258	5.52730	.87500	.34500	-.10210	.95740	.12040	-.07290	.00020	-.00940	1.88880
1.077	19.420	5.55600	.98170	.38170	-.10820	1.07810	.11520	-.07290	.00020	-.00940	1.59790
1.073	21.582	5.58470	1.08840	.41840	-.11430	1.19880	.11000	-.07290	.00020	-.00940	1.30700
1.069	23.744	5.61340	1.19510	.45510	-.12040	1.31950	.10480	-.07290	.00020	-.00940	1.01610
1.065	25.906	5.64210	1.30180	.49180	-.12650	1.44020	.10000	-.07290	.00020	-.00940	0.72520
1.061	28.068	5.67080	1.40850	.52850	-.13260	1.56090	.10000	-.07290	.00020	-.00940	0.43430
1.057	30.230	5.69950	1.51520	.56520	-.13870	1.68160	.10000	-.07290	.00020	-.00940	0.14340
1.053	32.392	5.72820	1.62190	.60190	-.14480	1.80230	.10000	-.07290	.00020	-.00940	0.14340
1.049	34.554	5.75690	1.72860	.63860	-.15090	1.92300	.10000	-.07290	.00020	-.00940	0.14340
1.045	36.716	5.78560	1.83530	.67530	-.15700	2.04370	.10000	-.07290	.00020	-.00940	0.14340
1.041	38.878	5.81430	1.94200	.71200	-.16310	2.16440	.10000	-.07290	.00020	-.00940	0.14340

RUN NO. 155/ 0. RUN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.151	.088	5.37710	-.03100	.14300	.04010	-.03080	.14310	-.07930	.00580	-.00820	-.21690
1.150	.309	5.40580	-.22390	.16080	-.07140	-.23520	.14280	-.08890	.00080	-.00840	1.39850
1.145	8.614	5.43450	.44340	.20960	-.08660	.47570	.13930	-.05590	.00040	-.00870	2.16290
1.146	10.785	5.46320	.55010	.24330	-.09270	.59640	.13530	-.05590	.00040	-.00870	2.27740
1.145	12.934	5.49190	.65680	.27700	-.09880	.71710	.13130	-.05590	.00040	-.00870	2.29680
1.145	15.096	5.52060	.76350	.31070	-.10490	.83760	.12730	-.05590	.00040	-.00870	2.24620
1.147	17.258	5.54930	.87020	.34440	-.11100	.95810	.12330	-.05590	.00040	-.00870	2.14440
1.148	19.420	5.57800	.97690	.37810	-.11710	1.07860	.11930	-.05590	.00040	-.00870	1.89220
1.149	21.582	5.60670	1.08360	.41180	-.12320	1.19910	.11530	-.05590	.00040	-.00870	1.64040
1.149	23.744	5.63540	1.19030	.44550	-.12930	1.31960	.11130	-.05590	.00040	-.00870	1.38860
1.149	25.906	5.66410	1.29700	.47920	-.13540	1.44010	.10730	-.05590	.00040	-.00870	1.13680
1.149	28.068	5.69280	1.40370	.51290	-.14150	1.56060	.10330	-.05590	.00040	-.00870	0.88500
1.149	30.230	5.72150	1.51040	.54660	-.14760	1.68110	.10000	-.05590	.00040	-.00870	0.63320
1.149	32.392	5.75020	1.61710	.58030	-.15370	1.80160	.10000	-.05590	.00040	-.00870	0.38140
1.149	34.554	5.77890	1.72380	.61400	-.15980	1.92210	.10000	-.05590	.00040	-.00870	0.12960
1.149	36.716	5.80760	1.83050	.64770	-.16590	2.04260	.10000	-.05590	.00040	-.00870	0.12960
1.149	38.878	5.83630	1.93720	.68140	-.17200	2.16310	.10000	-.05590	.00040	-.00870	0.12960

(RE7013) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .001
 AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-034

ARC 11-97-87-034 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LRER = 474.8000 IN. YMRP = .0000 IN. YQ
 BRER = 936.6800 IN. ZMRP = 379.0800 IN. ZQ
 SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.537	.139	-4.94520	-0.0970	.04880	.02840	-.04668	.04890	.08998	-.00700	.00360	-1.04890
.538	2.166	-4.93830	.04230	.04910	.08960	.04410	.04750	.08770	-.00780	.00500	.65130
.539	4.211	-4.94260	.13710	.03260	.02780	.14050	.04290	.08760	-.00660	.00280	2.63710
.537	6.283	-4.93490	.23870	.06630	.02530	.24350	.03400	.08630	-.00600	.00720	3.94430
.538	8.371	-4.92210	.34510	.07250	.02380	.33200	.02150	.08300	-.00720	.00960	4.79990
.539	10.476	-4.91140	.45310	.09480	.02120	.46210	.01800	.08180	-.00680	.01300	4.99130
.537	12.586	-4.88440	.56560	.11890	.01910	.57890	.00740	.07880	-.00610	.01450	4.75590
.538	14.690	-4.87650	.66990	.16660	.01590	.69630	.00670	.08770	-.00840	.01060	4.02040
.537	16.788	-4.88170	.76620	.22620	.01160	.79790	.00450	.09920	-.00870	.00900	3.38320
.538	18.908	-4.90890	.84950	.29100	.00750	.89800	.00000	.09340	-.00830	.00950	2.91320
.537	21.014	-4.90840	.94280	.36280	.00450	1.01020	.00060	.09350	-.00730	.00730	2.59900
.538	23.115	-4.89800	1.03070	.43360	.00750	1.11820	.00560	.10190	-.00750	.00250	2.37590
.537	25.199	-4.88870	1.08530	.50420	.00900	1.20570	.01010	.11040	-.00620	-.00170	2.17210
.538	26.192	-4.84550	1.06050	.51670	.04700	1.17970	-.00440	.09070	-.00160	.00410	2.05240
.539	GRADIENT	.00073	.04585	.00093	-.00015	.04668	-.00160	-.00056	.00010	.00084	.68338

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.698	.128	-4.94620	-.05360	.05110	.03180	-.05350	.05120	.09150	-.00730	.00380	-1.04860
.699	2.166	-4.93810	.04330	.05110	.03160	.04540	.04940	.08950	-.00740	.00510	.66280
.699	4.225	-4.95210	.14360	.05480	.03080	.14720	.04410	.08720	-.00710	.00590	2.63580
.699	6.315	-4.94630	.24950	.06370	.02700	.25006	.03590	.08840	-.00640	.00710	3.91950
.698	8.418	-4.93230	.35940	.07780	.02380	.36700	.02430	.08630	-.00720	.00950	4.62270
.699	10.539	-4.92050	.47160	.10480	.01940	.48290	.01680	.08370	-.00700	.01070	4.49920
.697	12.654	-4.90170	.57370	.14200	.01770	.58140	.01580	.08510	-.00730	.01138	3.97870
.699	14.768	-4.89970	.66520	.19240	.01610	.69230	.00400	.09040	-.00690	.00950	3.45770
.697	16.874	-4.90450	.75450	.25150	.00910	.79500	.02160	.09030	-.00378	.00710	3.00320
.699	19.006	-4.93610	.84480	.31370	.00580	.90090	.02140	.09680	-.00140	.00420	2.69350
.699	21.142	-4.93470	.94260	.38360	.00930	1.01750	.01780	.10160	-.00140	.00250	2.45790
.698	23.251	-4.93040	1.01410	.45120	.02140	1.09800	.01420	.10300	.00140	.00260	2.24750
.699	25.302	-4.90740	.99700	.49170	.06810	1.10610	.02100	.08230	.00780	.00180	2.01550
.698	26.262	-4.87600	.94930	.49960	.09060	1.07240	.02890	.07160	.00880	.00000	1.90000
.697	GRADIENT	.00045	.04313	.00090	-.00024	.04698	-.00173	-.00155	.00095	.00056	.69519

(RET013) (02 AUG 75)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITTER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 43/ 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MA	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.800	.107	-4.95160	-.06030	.05420	.03820	-.06020	.05430	.09130	-.00860	.00330	-1.11320
.799	2.168	-4.95140	.04070	.05390	.03730	.04270	.05230	.08900	-.00870	.00530	.79480
.798	4.238	-4.95370	.14550	.05830	.13540	.14940	.04740	.08800	-.00850	.00590	2.49330
.798	6.341	-4.96390	.26120	.07260	.02740	.26820	.04320	.09290	-.00790	.00620	3.60730
.797	8.452	-4.93600	.36990	.09320	.02180	.37990	.03980	.08680	-.00750	.00620	3.88430
.797	10.572	-4.92760	.46590	.12460	.1950	.48180	.03690	.09490	-.00720	.00980	3.74560
.798	12.691	-4.91740	.56040	.16580	.01790	.59310	.03850	.09250	-.00610	.00890	3.36020
.798	14.815	-4.92110	.64990	.21370	.01510	.69300	.04400	.09020	-.00370	.00730	3.04110
.797	16.931	-4.91810	.74360	.27110	.00700	.79040	.04280	.09220	-.00290	.00500	2.74330
.797	19.085	-4.95250	.83830	.33290	.00760	.90100	.04050	.09390	-.00100	.00250	2.51600
.797	21.213	-4.94930	.91080	.39640	.01970	.99250	.04000	.09220	.00270	.00340	2.29760
.795	23.309	-4.93910	.94130	.45070	.05010	1.04280	.04140	.08220	.00920	.00780	2.08560
.796	25.344	-4.90820	.90310	.48380	.09460	1.02330	.05070	.06680	.01230	.01830	1.86660
		-.00051	.04983	.00039	-.00068	.05075	-.00167	-.00380	.00002	.00053	.7313

RUN NO. 44/ 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MA	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.851	.113	-4.97910	-.06370	.05840	.04360	-.06360	.05860	.09680	-.00860	.00300	-1.09030
.848	2.174	-4.95640	.04210	.05840	.04160	.04430	.05860	.09270	-.00890	.00530	.72040
.847	4.257	-4.96490	.15210	.06530	.03690	.15650	.05380	.09650	-.00880	.00530	2.32910
.848	8.467	-4.93570	.36300	.10590	.02470	.37470	.05130	.08930	-.00570	.00660	3.42630
.847	10.583	-4.92170	.46320	.13710	.02160	.48050	.04960	.08460	-.00590	.00990	3.57770
.849	12.714	-4.92520	.56270	.17890	.02050	.57350	.05290	.08320	-.00510	.00900	3.08900
.845	14.834	-4.91360	.64240	.22600	.01290	.67990	.05430	.08320	-.00340	.00710	2.84230
.845	16.960	-4.92580	.73220	.28070	.00900	.78220	.05490	.08520	.00000	.00460	2.61970
.847	19.122	-4.94950	.82160	.34240	.01520	.89240	.05430	.08520	.00500	.00320	2.39970
.845	21.245	-4.94760	.90770	.40270	.03150	.99970	.05510	.08010	.00970	.00590	2.18450
.845	23.337	-4.94560	.98390	.45260	.06030	1.01270	.05600	.07240	.01730	.01100	1.93920
.846	25.393	-4.90760	.89250	.49630	.10190	1.01910	.06570	.05100	.01810	.01810	1.73920
.846	26.405	-4.85930	.89760	.52090	.10830	1.03560	.06740	.05430	.01940	.01540	1.52320
		.00583	.05208	.00167	-.00162	.05312	-.00116	-.00004	-.00007	.00055	.82513

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OF POOR QUALITY

(RE7013) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = -.000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER.

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.0800 IN. XO
LREF = 474.8300 IN. YMRP = .0000 IN. YO
SREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.93	.105	-4.97020	-.05000	.07110	.03660	-.04980	.07120	.09870	-.00990	.00010	-.70360
.901	2.182	-4.99070	.05780	.07260	.03010	.07060	.07000	.10390	-.00940	.00250	.93390
.900	4.264	-4.97120	.17740	.08300	.02420	.18310	.06960	.09810	-.00950	.00180	2.13820
.981	6.373	-4.95370	.27910	.10020	.02050	.28850	.06860	.08980	-.00810	.00530	2.78510
.899	8.486	-4.94560	.37280	.12460	.01970	.38710	.06820	.08820	-.00620	.00870	2.99280
.900	10.617	-4.94310	.47350	.15740	.01360	.49440	.06750	.08570	-.00510	.00930	3.00840
.900	12.742	-4.92890	.58320	.19910	.01000	.59330	.07000	.08790	-.00290	.00830	2.82830
.900	14.864	-4.93680	.66000	.24930	.00200	.70190	.07140	.08410	.00170	.00650	2.64740
.899	17.012	-4.93800	.74570	.30190	.00260	.80130	.07010	.08070	.00490	.00570	2.47320
.897	19.173	-4.96860	.82980	.36130	.00950	.90240	.06880	.07900	.01460	.00630	2.29550
.888	21.302	-4.96870	.88410	.41890	.02760	.97590	.06910	.07270	.02390	.00570	2.11070
.900	23.415	-4.95870	.90540	.47570	.06570	1.02080	.07630	.05850	.01470	.01540	1.90550
.895	25.486	-4.92540	.92020	.52310	.09770	1.04950	.07940	.05980	.00630	.00960	1.74500
.899	26.494	-4.87940	.92020	.54890	.11030	1.06830	.08050	.08390	.00530	.00960	1.67730
				.00286	-.00346	.05603	-.00368	-.00015	.00010	.00041	.69337

GRADIENT
RUN NO. 55/ 0 RVAL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.949	.119	-4.96790	-.05210	.09820	.04960	-.05190	.09830	.08730	-.00730	.00620	-.53060
.949	2.197	-4.99230	.07890	.10180	.03080	.08270	.09870	.08770	-.00690	.00760	.77460
.950	4.294	-4.95350	.20600	.11350	.01360	.21390	.09780	.08360	-.00700	.00580	1.81470
.949	6.410	-4.95140	.32350	.13280	.00040	.33630	.09520	.08350	-.00590	.00500	2.43640
.947	8.531	-4.94470	.42330	.15780	-.00330	.44280	.09330	.08070	-.00260	.00740	2.68170
.948	10.663	-4.94070	.52320	.19180	-.01040	.54870	.09180	.07620	.00010	.00760	2.72310
.947	12.802	-4.93770	.62660	.23450	-.01710	.66300	.08980	.07210	.00450	.00590	2.67200
.946	14.949	-4.94680	.71740	.28550	-.01790	.76686	.08970	.07380	.00980	.00370	2.51250
.947	17.098	-4.94450	.81450	.34440	-.02080	.87980	.08970	.08260	.00980	.00970	2.35540
.947	19.270	-4.94660	.90760	.41320	-.01950	.99310	.09050	.08360	.00830	.00960	2.19660
.946	21.335	-4.95470	.94850	.47110	-.00840	1.05500	.08650	.06360	.01310	.00920	1.83680
.945	23.487	-4.94960	.94310	.51670	.04850	1.07640	.08560	.06290	.01630	.01140	1.69570
.945	25.568	-4.92320	.96670	.55950	.07380	1.11700	.09700	.05510	.01920	.00640	1.62890
.949	26.593	-4.84010	.96570	.58570	.09470	1.11710	.09760	.08790	.01120	.00640	1.58160
				.00367	-.00862	.05367	-.00012	-.00084	.00007	-.00810	

GRADIENT

(RE7813) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-97-09+)

ARC 11-97-97-09+ 0A161 ORBITER

REFERENCE DATA

SPEF = 2890.0000 SQ.FT. XMRP = 1075.6800 IN. XC
LREF = 474.8000 IN. YMRP = .0900 IN. YC
SPEF = 956.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300F

RUN NO. 64 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.961	.113	-4.96900	-.05160	.11660	.05530	-.05140	.11670	.08500	-.00540	.00740	-.44250
.979	2.204	-4.95170	.08040	.11850	.03450	.08490	.11540	.08110	-.00500	.00890	.67830
.980	4.303	-4.96110	.20930	.13270	.01480	.21860	.11600	.07750	-.00550	.00800	1.58440
.979	8.425	-4.95370	.33210	.15010	-.00230	3.4680	.11200	.08000	-.00500	.00710	2.21270
.979	8.559	-4.93780	.44070	.17760	-.01130	4.6220	.11000	.07890	-.00590	.00740	2.45180
.979	10.608	-4.92650	.55410	.21330	-.02390	5.8410	.10730	.07310	-.00380	.00970	2.59070
.979	12.844	-4.92490	.66350	.26180	-.03270	7.0510	.10770	.07330	-.00110	.01040	2.53460
.977	15.003	-4.93430	.76380	.31480	-.03560	8.1930	.10540	.07150	-.00030	.00940	2.42600
.977	17.149	-4.94220	.85180	.37350	-.04120	9.4430	.10580	.06920	.00570	.01130	2.28040
.979	19.319	-4.95370	.94520	.44430	-.04610	1.03900	.10560	.06800	.01380	.01200	2.12730
.976	21.462	-4.94270	1.00930	.50890	-.05170	1.12570	.10430	.05980	.01700	.01580	1.98350
.977	23.570	-4.91720	1.01610	.56570	-.04400	1.16490	.10880	.05520	.02380	.01780	1.81080
.979	25.640	-4.87160	1.02920	.62560	-.03300	1.17980	.10820	.03780	.02170	.01750	1.61760
.979	26.645	.00188	.06226	.00370	-.00966	1.20400	.10700	.04110	-.00002	.00014	1.48368

RUN NO. 65 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.049	.126	-4.95890	-.03570	.13760	.05040	-.03540	.13770	.07940	-.00660	.01040	-.25930
1.051	2.210	-4.93230	.09790	.14360	.02420	.10340	.13970	.07600	-.00690	.01100	.68200
1.053	4.316	-4.95970	.22730	.15680	.00090	.23850	.13920	.07760	-.00430	.00980	1.45000
1.049	8.436	-4.95360	.34360	.17730	-.01360	3.6130	.13760	.07810	-.00350	.00820	1.93830
1.047	8.570	-4.94470	.45330	.20370	-.02770	4.7860	.13390	.07920	-.00330	.00910	2.22510
1.049	10.721	-4.93540	.56600	.24290	-.03420	6.0130	.13340	.07630	-.00150	.01100	2.32980
1.049	12.872	-4.92620	.67380	.28960	-.04260	7.2110	.13120	.07450	-.00050	.01040	2.33510
1.048	15.041	-4.93800	.77460	.34300	-.04400	8.3770	.13020	.07820	-.00020	.01100	2.29830
1.051	17.204	-4.94610	.87140	.40790	-.05280	9.6300	.13190	.07820	.00210	.01110	2.13620
1.046	19.374	-4.95810	.95200	.47710	-.05400	1.06580	.13090	.07520	.00770	.01170	2.01660
1.046	21.533	-4.96420	1.04940	.55350	-.05650	1.17930	.12970	.06830	.01240	.00910	1.83600
1.045	23.664	-4.95950	1.11540	.62980	-.05410	1.27410	.12910	.07470	.01380	.00600	1.77100
1.043	25.735	-4.91840	1.09320	.67180	-.04410	1.24650	.13040	.03870	.02410	.01840	1.62740
1.043	26.753	.00110	.11050	.69760	-.00110	1.30100	.12530	.04340	.02210	.01870	1.58460
1.047	GRADIENT	.00204	.06275	.00458	-.01161	.06536	.00036	-.00043	.00055	-.00014	.43782

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2593.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LPER = 474.8000 IN. YMRP = .0000 IN. YO
BPER = 930.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AIRLON = -7.170

RUN NO. 74/ 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.11	2.207	-4.96320	10490	14630	01570	11040	14220	08020	-00550	01630	71660
1.105	4.310	-4.98440	23220	16090	00490	24370	14300	08620	-00380	00960	144310
1.100	6.435	-4.93680	34270	18140	01710	36090	14180	06580	-00510	00840	1.67930
1.095	8.568	-4.94930	44930	20860	02540	47550	14030	07920	-00440	00950	2.14350
1.090	10.721	-4.95920	55710	24390	03390	59270	13600	07480	-00290	01150	2.28420
1.085	12.875	-4.98200	65560	28810	04190	71300	13260	07020	-00190	01160	2.30990
1.080	15.046	-4.94060	77630	34410	05250	83900	13080	07740	-00170	00690	2.25570
1.075	17.209	-4.94880	87600	40780	06090	95740	13040	07580	-00310	00660	2.14790
1.070	19.392	-4.97320	95860	47820	06450	10680	13100	07310	-00830	00710	2.01720
1.065	21.531	-4.96440	103890	55050	06460	11680	13090	06590	-01350	00750	1.88760
1.060	23.651	-4.95810	109950	62210	05830	12660	12860	07280	-01310	00580	1.76740
1.055	25.759	-4.93800	113750	68640	04240	13280	12360	06980	-01620	00840	1.65720
1.050	26.783	-4.88800	114030	74780	03400	14100	12620	05900	-02000	00950	1.59050
1.045	26.783	-0.01008	06052	00694	00979	06338	00038	00295	-00081	-00033	-34531

RUN NO. 75/ 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.148	1.121	-4.93490	02320	14200	03960	02290	14200	08670	-00630	00310	16360
1.149	2.193	-4.97270	10340	14550	01200	10900	14240	08160	-00550	00900	70600
1.148	4.299	-4.96780	22770	15950	01110	23900	14200	07760	-00430	00870	1.62730
1.147	6.423	-4.94990	34220	17920	02980	36010	13980	07260	-00240	00820	1.90950
1.147	8.551	-4.93870	45200	20890	03610	47750	13940	07170	-00180	00990	2.17340
1.147	10.714	-4.9270	55860	24330	04280	59210	13560	07730	-00120	01110	2.28790
1.149	12.869	-4.93110	66110	28710	04860	70850	13260	07700	-00080	01020	2.30320
1.149	15.043	-4.94330	77360	34350	06230	83630	13090	07490	-00130	00800	2.25250
1.150	17.204	-4.94670	86790	40480	06890	94980	13000	07200	-00430	00650	2.14380
1.148	19.380	-4.97840	95590	47350	07290	10580	12840	07180	-01040	00650	1.89530
1.148	21.531	-4.95720	103410	54560	07400	116220	12800	06200	-01470	00400	1.78380
1.149	23.664	-4.95720	109860	61590	07120	125340	12310	06270	-01740	00400	1.65380
1.149	25.770	-4.94540	112960	67890	05080	131240	12030	06900	-01960	00630	1.60920
1.150	26.806	-4.91030	114380	71080	04130	14150	11660	06500	-02290	-00500	1.59050
		-0.0948	06905	00419	-0.0213	06269	-00000	-00218	-00048	-00010	38070

(RET/013) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OAN61 (ARC 11-97-87-09%)

ARC 11-97-87-09% OAN61 ORBITER

REFERENCE DATA

SPEED = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8086 IN. YMRP = .0080 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 84/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.202	.102	-4.96080	-0.1670	.03290	-.01650	.14540	.07880	-.00730	.00750	-.11520
1.202	2.182	-4.96000	.10470	.08750	.11030	.14510	.07120	-.00670	.00790	.70190
1.202	4.290	-4.97060	.22330	-.01500	.23470	.14320	.07830	-.00410	.00870	1.39290
1.202	6.471	-4.97650	.33690	-.03110	.35480	.14080	.07730	.00180	.00840	1.87580
1.200	8.553	-4.98140	.44580	-.04270	.47270	.13900	.07630	.00150	.00920	2.15080
1.200	10.737	-4.94370	.55130	-.05060	.58700	.13680	.07750	-.00220	.00780	2.26650
1.201	12.864	-4.93590	.66190	-.06290	.70970	.13470	.07730	.00140	.00720	2.28730
1.199	15.040	-4.93550	.76710	-.07160	.83020	.13360	.07720	.00110	.00690	2.21670
1.198	17.199	-4.93490	.86650	-.07800	.93790	.13150	.07720	.00090	.00700	1.98890
1.198	19.374	-4.93460	.93740	-.07800	1.03990	.12700	.06570	.00410	.00740	1.89890
1.197	21.548	-4.97100	1.01090	-.07880	1.13630	.12000	.06570	.01710	.00650	1.78560
1.197	23.861	-4.97430	1.08370	-.07880	1.23610	.11790	.06290	.02310	.00880	1.66900
1.193	25.779	-4.95320	1.12670	-.08260	1.30840	.11580	.05410	.02310	.01100	1.61010
1.193	26.808	-4.92489	1.13050	-.05040	1.32570	.11580	.05410	.00077	.00029	.36094
1.198	GRADIENT	-.00233	.05745	-.01146	.06013	-.00053	-.80011			

RUN NO. 85/ 0 RV/L = 4.25 GRADIENT INTERVAL = -5.034 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.297	.100	-5.00820	-.00520	.02100	-.08490	.14860	.09700	-.00440	.00640	-.03510
1.297	2.155	-4.98080	.10390	-.00040	.10350	.14540	.08210	-.00430	.00710	.69050
1.297	4.266	-4.91570	.21390	-.02030	.22520	.14380	.08530	-.00130	.00850	1.33560
1.295	6.381	-4.99680	.32300	-.03720	.34060	.14110	.08690	.00050	.00830	1.81320
1.295	8.517	-4.97320	.42960	-.05100	.45520	.13890	.07640	.00096	.00760	2.09910
1.294	10.672	-4.95510	.53530	-.06330	.57070	.13780	.07260	.00030	.00800	2.22050
1.294	12.822	-4.94100	.63860	-.07520	.68510	.13500	.07730	-.00070	.00780	2.24890
1.293	14.985	-4.95300	.73900	-.08470	.80100	.13400	.07610	.00260	.00770	2.19530
1.293	17.157	-4.96760	.82540	-.08750	.90470	.13230	.07260	.00680	.00860	2.09900
1.293	19.327	-4.98820	.90290	-.08790	1.00200	.12870	.07110	.01000	.00840	1.98280
1.293	21.475	-4.98820	.97360	-.08790	1.09560	.12580	.07110	.01490	.00590	1.87980
1.294	23.617	-4.98120	1.04510	-.08770	1.19410	.12230	.07240	.01790	.00640	1.77010
1.294	25.746	-4.95850	1.10390	-.08770	1.28270	.11850	.06910	.02200	.00790	1.66270
1.292	26.798	-4.93378	1.12440	-.08280	1.31950	.11840	.05850	.02440	.00940	1.60520
1.293	GRADIENT	-.00183	.05272	-.00994	.05537	-.00101	-.00615	.00075	.00651	.32979

TABULATED DATA - 0A1B1 (ARC 11-97-87-094)

(RE7013) (02 AUG 76)

ARC 11-97-87-094 0A1B1 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2696.000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BRKF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 ALRON =

ELEVON = .000
 BOFLAP = -7.170

RUN NO. 94 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.403	.074	-4.97770	-.00330	.14659	.01350	-.00320	.14650	.07910	-.00610	.00530	-.02280
1.404	2.145	-5.01400	.00840	.14790	-.00500	.10390	.14410	.09300	-.00340	.00660	.66520
1.402	4.235	-5.01220	.20280	.15700	-.02290	.21390	.14160	.09010	-.00200	.00770	1.29150
1.398	6.352	-4.98600	.30710	.17400	-.03950	.32450	.13890	.07850	-.00010	.00810	1.78460
1.400	8.494	-4.95360	.40880	.19330	-.05350	.43380	.13670	.06810	.00020	.00950	2.05090
1.401	10.648	-4.95060	.50510	.23280	-.06380	.53940	.13490	.06880	.00050	.00770	2.17500
1.402	12.794	-4.96260	.58870	.27180	-.07350	.64410	.13250	.07410	.00130	.00720	2.20250
1.398	14.960	-4.96760	.69120	.31930	-.08190	.75020	.13010	.07670	.00310	.00680	2.16440
1.398	17.126	-4.97640	.78050	.37300	-.08850	.85580	.12660	.07680	.00740	.00710	2.09250
1.397	19.303	-4.98860	.85460	.43220	-.09290	.95890	.12210	.06480	.01060	.00690	2.00080
1.398	21.461	-4.99530	.93900	.49690	-.09330	1.05520	.11890	.07070	.01660	.00650	1.88970
1.400	23.605	-4.93050	1.00840	.56710	-.09160	1.15110	.11590	.04090	.01640	.00620	1.77810
1.398	25.736	-4.93050	1.08090	.63710	-.08160	1.23230	.11330	.04560	.02080	.00770	1.65510
1.399	26.786	-4.93930	1.08500	.67390	-.07700	1.27230	.11260	.05750	.02350	.00780	1.51000
			.04953	.00253	-.00875	.05216	-.00118	.00264	.00098	.00858	.31585

GRADIENT

RUN NO. 3217 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.556	.019	-5.61910	-.01900	.14020	.00840	-.01900	.14020	.08700	-.00420	.00250	-.13560
1.556	2.016	-5.61980	.07270	.13980	-.00710	.07760	.13720	.08150	-.00310	.00290	.52030
1.556	4.095	-5.62010	.16530	.14680	-.02300	.17630	.13440	.07870	-.00470	.00320	1.13400
1.556	6.170	-5.61780	.25890	.16060	-.03700	.27460	.13180	.07310	.06000	.00360	1.61200
1.556	8.243	-5.61820	.34790	.18150	-.04800	.37030	.12980	.07210	.06110	.00380	1.91630
1.556	10.312	-5.61790	.43490	.20950	-.05820	.46540	.12830	.07210	.06170	.00380	2.07600
1.556	12.359	-5.61750	.51670	.24190	-.06650	.55650	.12570	.07190	.06260	.00330	2.13610
1.556	14.449	-5.62080	.59410	.28020	-.07130	.64520	.12310	.07340	.06460	.00340	2.12040
1.556	16.597	-5.62030	.67460	.32600	-.07680	.73960	.11970	.07120	.06880	.00300	2.08950
1.556	18.694	-5.62210	.75160	.37590	-.08080	.83250	.11520	.06980	.01020	.00300	1.99940
1.556	20.726	-5.61970	.83170	.43000	-.08530	.93110	.11060	.06410	.01380	.00330	1.92080
1.556	22.806	-5.61830	.89970	.49520	-.08760	1.02130	.10770	.06250	.01840	.00380	1.81710
1.556	24.873	-5.61260	.95940	.56210	-.08490	1.10680	.10640	.05870	.01900	.00400	1.70680
1.556	25.903	-5.61240	.99310	.59900	-.08430	1.15500	.10500	.06740	.02010	.00390	1.65790
			.04545	.00158	-.00770	.04791	-.00142	-.00203	.00064	.00017	.31135

GRADIENT

(RE7013) (02 AUG 78)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09+)
ARC 11-97-87-09+ 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 330/ 0 RUN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	.057	-5.44710	-.01750	.13340	-.00260	-.01730	-.13340	.08420	-.00250	.00240	-.12980
1.750	2.014	-5.44800	.06390	.13500	-.01470	.08860	-.13270	.07930	-.00150	.00230	.47320
1.750	4.056	-5.44820	.14860	.14060	-.02740	.15810	-.12980	.07590	.00010	.00220	1.05640
1.750	6.094	-5.45230	.23200	.17100	-.03818	.24690	-.12670	.07350	.00180	.00210	1.52410
1.750	8.139	-5.45080	.31120	.17100	-.04570	.33220	-.12520	.07110	.00270	.00218	1.82000
1.750	12.181	-5.44960	.46290	.22270	-.05860	.49950	-.12060	.06880	.00490	.00290	2.07880
1.750	14.285	-5.44610	.54060	.25790	-.06270	.58730	-.11670	.06770	.00850	.00320	2.09950
1.750	16.338	-5.44610	.61310	.29770	-.06620	.67210	-.11320	.06570	.00890	.00310	2.00410
1.750	18.413	-5.44670	.68810	.34330	-.06970	.76130	-.10940	.06280	.01220	.00290	1.92650
1.750	20.401	-5.44450	.76060	.39480	-.07270	.85050	-.10490	.05960	.01530	.00300	1.82660
1.750	22.456	-5.44160	.83610	.45400	-.07440	.94060	-.10250	.05540	.01740	.00360	1.73280
1.750	24.472	-5.43970	.89760	.51800	-.07880	1.03150	-.09880	.05340	.01930	.00360	1.68430
1.750	26.464	-5.43630	.93100	.55270	-.08040	1.07820	-.09880	.05340	.02000	.00360	1.29638
GRADIENT		-.08027	.04154	.00131	-.00620	.04387	-.00140	-.00207	.00065	-.00005	

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.997	.044	-5.97670	-.02460	.12840	-.01090	-.02450	-.12850	.09380	-.00160	.00250	-.19170
1.997	1.915	-5.97770	.04810	.12750	-.01950	.05230	-.12580	.08930	-.00070	.00230	.37730
1.997	3.949	-5.97980	.12240	.13180	-.02860	.13120	-.12300	.08510	.00070	.00200	.92900
1.997	5.978	-5.98020	.19550	.14110	-.03290	.20710	-.12020	.08150	.00260	.00180	1.37140
1.997	7.991	-5.97920	.26300	.15700	-.03810	.28220	-.11890	.07670	.00500	.00170	1.67470
1.997	9.999	-5.97770	.33340	.17700	-.04110	.35910	-.11658	.07510	.00570	.00210	1.88320
1.997	11.998	-5.97680	.40340	.20200	-.04430	.43650	-.11400	.07370	.00690	.00240	1.95760
1.997	13.999	-5.97470	.47560	.23210	-.04890	.51760	-.11050	.07080	.00860	.00270	2.04890
1.997	16.007	-5.97120	.54470	.25680	-.05410	.59710	-.10630	.06780	.01110	.00290	2.04150
1.997	18.029	-5.96990	.61730	.30840	-.05750	.68240	-.10220	.06350	.01410	.00250	2.00140
1.997	20.015	-5.96970	.68770	.35680	-.06060	.76830	-.09990	.06210	.01670	.00280	1.92730
1.997	22.033	-5.96600	.75370	.40950	-.06340	.85230	-.09680	.06050	.01800	.00330	1.84370
1.997	24.034	-5.96440	.82060	.46780	-.06340	.93660	-.09320	.06120	.01960	.00380	1.75350
1.997	26.032	-5.96390	.85320	.49950	-.06518	.98390	-.09170	.06290	.02000	.00400	1.71460
GRADIENT		-.08080	.03763	.00099	-.00453	.03986	-.00141	-.00223	.00058	-.00013	.28678

ORIGINAL PAGE IS
OF POOR QUALITY

(RE7013) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER

REFERENCE DATA

SPEP = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 349/ 0 RNAL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.250	-1.138	-6.07330	.03300	.11960	-.01600	-.03330	.11960	.09880	-.00350	.00270	-.27560
2.250	1.844	-6.07310	.02820	.11830	-.02050	.03200	.11730	.09280	-.00260	.00250	.23850
2.250	3.902	-6.07230	.09310	.12146	-.02620	.10120	.11480	.08910	-.00150	.00250	.76730
2.250	5.957	-6.07170	.15890	.12830	-.02920	.16940	.11140	.08430	.00060	.00250	1.22260
2.250	8.008	-6.07160	.21950	.14180	-.03130	.23720	.10900	.07900	.00300	.00250	1.54790
2.250	10.062	-6.06970	.28350	.15990	-.03270	.30720	.10780	.07700	.00410	.00290	1.77430
2.250	12.093	-6.06720	.35099	.18300	-.03580	.38150	.10950	.07170	.00610	.00300	1.91700
2.250	14.170	-6.06550	.41690	.21010	-.03750	.45660	.10170	.07080	.00750	.00350	1.98380
2.250	16.297	-6.06470	.48280	.24370	-.03980	.53170	.09840	.06930	.00890	.00370	1.98130
2.250	18.375	-6.06370	.55060	.28310	-.04110	.61190	.09510	.06760	.01090	.00380	1.94480
2.250	20.387	-6.06010	.61670	.32820	-.04760	.69240	.09270	.06490	.01240	.00410	1.87940
2.250	22.460	-6.05730	.67950	.37800	-.05020	.77240	.08970	.06380	.01380	.00490	1.79780
2.250	24.511	-6.05530	.74220	.43390	-.05350	.85530	.08590	.06480	.01510	.00490	1.71040
2.250	25.529	-6.05420	.77350	.46410	-.05520	.89800	.08540	.06620	.01540	.00530	1.66890
2.250	GRADIENT	.00027	.03128	.00045	-.00253	.03329	-.00119	-.00240	.00050	-.00005	.25810

RUN NO. 416/ 0 RNAL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.499	.103	-4.91250	-.02560	.11510	-.02010	-.02540	.11510	.09690	-.00170	.00300	-.22230
2.499	2.136	-4.94100	.02990	.11370	-.02330	.03410	.11250	.09380	-.00060	.00290	.26320
2.499	4.174	-4.96020	.08710	.11670	-.02650	.09540	.11000	.08680	.00050	.00270	.74650
2.499	6.205	-4.97870	.14550	.12340	-.02820	.15790	.10690	.08400	.00240	.00310	1.17920
2.499	8.248	-4.99270	.20760	.13570	-.02940	.22490	.10450	.08060	.00410	.00350	1.52940
2.499	10.290	-5.00160	.27060	.15410	-.03010	.29370	.10330	.07670	.00520	.00430	1.75500
2.499	12.333	-5.00850	.33560	.17670	-.03200	.36960	.10100	.07520	.00570	.00490	1.89890
2.499	14.368	-5.00950	.40160	.20420	-.03460	.43970	.09810	.07220	.00750	.00580	1.96700
2.499	16.401	-5.00800	.46790	.23720	-.03760	.51590	.09530	.07080	.00870	.00630	1.97260
2.499	18.457	-5.00240	.53190	.27620	-.04030	.59200	.09360	.06780	.01040	.00650	1.92550
2.499	20.492	-4.99160	.59910	.31990	-.04310	.66840	.09130	.06540	.01430	.00720	1.86010
2.499	22.540	-4.97840	.66620	.36820	-.04580	.74720	.08890	.06690	.01230	.00770	1.78240
2.499	24.577	-4.96400	.71760	.42370	-.04870	.82840	.08590	.06460	.01310	.00800	1.69770
2.499	25.602	-4.95000	.74780	.45240	-.05060	.86990	.08490	.06490	.01320	.00820	1.65280
2.499	GRADIENT	-.01871	.02768	.00039	-.08157	.02967	-.00125	-.00248	.00054	-.00007	.23792

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09*)
ARC 11-97-87-09* 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XRRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YRRP = .0000 IN. YO
BREF = 936.6800 IN. ZRRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 425/ 0 R/V/L = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.040	.003	-4.87920	-.03420	.10250	-.02410	-.03420	.10250	.09390	-.00170	.00230	.33340
3.040	2.037	-4.90430	.04130	.10010	-.02410	.01470	.09570	.08980	-.00090	.00290	.11110
3.040	4.059	-4.92490	.06060	.10080	-.02460	.06760	.09630	.08620	.00010	.00350	.60120
3.040	6.086	-4.94230	.11200	.10540	-.02510	.12250	.09290	.08180	.00180	.00380	1.06290
3.040	8.118	-4.95350	.16640	.11510	-.02520	.18070	.09050	.07540	.00250	.00450	1.44250
3.040	10.155	-4.96440	.22170	.13010	-.02540	.24110	.08900	.07540	.00340	.00550	1.70320
3.040	12.189	-4.97080	.27800	.14970	-.02550	.30330	.08770	.07510	.00420	.00640	1.85660
3.040	14.224	-4.97490	.33780	.17440	-.02580	.37030	.08610	.07190	.00510	.00770	1.93590
3.040	16.252	-4.98950	.39650	.20330	-.02740	.43750	.08420	.06940	.00620	.00820	1.91840
3.040	18.282	-4.99630	.45690	.23820	-.02900	.50850	.08270	.06740	.00690	.00820	1.85750
3.040	20.318	-4.99340	.51660	.27810	-.03100	.58100	.08140	.06640	.00780	.00840	1.78250
3.040	22.355	-4.98880	.57870	.32460	-.03350	.65870	.08000	.06300	.00840	.00850	1.69780
3.040	24.391	-4.98270	.63510	.37410	-.03580	.73290	.07840	.06110	.01070	.00830	1.65560
3.040	25.409	-4.97070	.66340	.40070	-.03700	.77110	.07730	.06010	.01110	.00830	1.65560
GRADIENT		-.01124	-.00042	-.00042	-.00012	.02510	-.00153	-.00187	.00044	.00038	.23043

RUN NO. 426/ 0 R/V/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	-.188	-5.09700	-.03750	.09620	-.02660	-.03780	.09610	.09240	-.00060	.00130	.39930
3.499	1.834	-5.11870	.00830	.09260	-.02480	.00320	.09260	.08330	-.00030	.00220	.00280
3.499	3.856	-5.13980	.04640	.09170	-.02400	.05250	.08840	.08070	.00040	.00310	.50580
3.499	5.888	-5.15920	.09260	.09540	-.02380	.10190	.08540	.08150	.00160	.00390	.97090
3.499	7.909	-5.17190	.14220	.10390	-.02290	.15520	.08330	.07740	.00210	.00500	1.36890
3.499	9.947	-5.17820	.19250	.11710	-.02200	.20880	.08210	.07050	.00200	.00600	1.64540
3.499	11.985	-5.18940	.24740	.13500	-.02120	.27000	.08080	.07130	.00330	.00700	1.83210
3.499	13.998	-5.19940	.30240	.15730	-.02070	.33150	.07950	.06800	.00430	.00800	1.9320
3.499	16.051	-5.18570	.35820	.18470	-.02070	.39550	.07860	.06520	.00560	.00950	1.9320
3.499	18.061	-5.17650	.41730	.21740	-.02190	.46410	.07730	.06370	.00680	.00930	1.86320
3.499	20.087	-5.16650	.47380	.25470	-.02340	.53250	.07650	.06090	.00780	.00930	1.79020
3.499	22.118	-5.15420	.53240	.29740	-.02470	.60520	.07510	.05790	.00880	.00940	1.70830
3.499	24.147	-5.13570	.59090	.34990	-.02630	.68070	.07390	.05550	.00920	.00950	1.65370
3.499	25.170	-5.12480	.61990	.37210	-.02710	.71850	.07350	.05550	.00920	.00950	1.65370
GRADIENT		-.01058	.02074	-.00111	.00064	.02233	-.00190	-.00269	.00025	.00045	.22133

(RE7014) 1 02 AUG 75

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFEAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 373.0800 IN. ZO
SCALE = .0300

RUN NO. 30/ 0 RVAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.598	.084	-1.84760	-.05510	.03120	-.05600	.05210	.03380	-.00280	.00130	-1.05830
.600	2.128	-1.85510	.03120	.03120	.03980	.05050	.03380	-.00250	.00160	.71940
.597	4.182	-1.84370	-.13320	.03110	.13690	.04510	.03370	-.00250	.00170	2.42260
.597	6.257	-1.84520	.23570	.02860	.24100	.03570	.03200	-.00220	.00240	3.81900
.597	8.342	-1.84450	.34070	.02460	.34770	.02300	.03290	-.00250	.00340	4.65660
.597	10.452	-1.84150	.45000	.02320	.45910	.00830	.03250	-.00280	.00530	4.92010
.597	12.576	-1.83500	.56150	.02320	.57420	-.00310	.03360	-.00220	.00610	4.67770
.597	14.626	-1.80560	.65610	.02080	.67680	-.00550	.03660	-.00430	.00440	3.95350
.597	16.802	-1.86520	.78110	.00970	.78410	-.00180	.04220	-.00300	.00240	3.33970
.597	18.927	-1.86820	.84720	.00540	.89710	.00430	.04310	-.00250	.00150	2.87150
.596	21.044	-1.86110	.94380	.01270	1.01330	.00530	.04340	-.00160	.00090	2.55890
.596	23.129	-1.84680	1.01430	.02940	1.10440	.00340	.04540	-.00100	.00260	2.32160
.596	25.204	-1.82160	1.06240	.05298	1.17420	.00160	.04240	-.00150	.00500	2.12430
.596	26.180	-1.77990	1.05280	-.00002	1.17400	.00160	.04240	-.00270	.00270	2.03690
GRADIENT		.00096	.00073	-.00002	.04683	-.00171	-.00002	.00007	.00010	.84242

RUN NO. 35/ 0 RVAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.689	.097	-1.87870	-.05970	.03460	-.05960	.05290	.03610	-.00330	.00130	-1.13180
.689	2.127	-1.85290	.03550	.03430	.03750	.05120	.03300	-.00330	.00180	.67560
.689	4.193	-1.84360	.13470	.03340	.13840	.04590	.03430	-.00270	.00160	2.40860
.686	6.285	-1.83360	.24100	.02990	.24650	.03666	.03670	-.00250	.00250	3.86810
.685	8.365	-1.84710	.35620	.02450	.36380	.02580	.03820	-.00260	.00310	4.57770
.687	10.511	-1.83760	.46460	.02150	.47600	.01840	.03400	-.00280	.00450	4.43090
.697	12.329	-1.82300	.54320	.02220	.55960	.01680	.03790	-.00320	.00450	3.99720
.697	14.738	-1.83620	.65150	.02190	.67730	.01680	.03610	-.00360	.00450	3.69650
.697	16.881	-1.81440	.74360	.01330	.78410	.01810	.03910	-.00290	.00190	3.42750
.697	19.016	-1.87450	.84360	.01330	.89710	.02340	.04190	-.00160	.00110	2.97280
.686	21.151	-1.87560	.94360	.00320	.90270	.04463	.04463	-.00150	.00150	2.65300
.685	23.251	-1.86970	.98710	.01256	1.01320	.02170	.04528	-.00328	.00150	2.42870
.686	25.293	-1.85290	1.03280	.02680	1.09980	.01940	.04450	-.00150	.00380	2.21890
.686	26.248	-1.82400	.98770	.06810	1.10300	.02240	.03790	-.00270	.00400	2.03840
.686		-1.77220	.95593	.09310	1.07880	.02530	.03220	.00015	.00307	1.98320
GRADIENT		.00856	.00076	-.00029	.04634	-.00171	-.00034	.00015		.86417

(RE7014) (02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 379.0000 IN. Z0
 SCALE = .0300

RUN NO. 424 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
798	.082	-1.88950	-.06630	.05630	.04200	-.06620	.05640	.03390	-.00330	.00090	-1.17750
799	2.131	-1.86600	.03440	.05620	.04090	.03640	.05480	.03370	-.00320	.00170	.61210
797	4.214	-1.85390	.14120	.05980	.03860	.14530	.04950	.03600	-.00280	.00180	2.35130
796	6.325	-1.84360	.25640	.07310	.03090	.26290	.04440	.03520	-.00310	.00200	3.50730
795	8.431	-1.83770	.36310	.09590	.02420	.37330	.04160	.03590	-.00220	.00370	3.76730
794	10.558	-1.83970	.45610	.12490	.02470	.47130	.03920	.03620	-.00270	.00430	3.65230
793	12.681	-1.83370	.54720	.16400	.02570	.56990	.03680	.03760	-.00280	.00390	3.33730
792	14.792	-1.82290	.64260	.21420	.01870	.67630	.04320	.03440	-.00320	.00130	2.99940
791	16.961	-1.87800	.73830	.27450	.01120	.78630	.04770	.03500	-.00210	.00400	2.68950
790	19.112	-1.87240	.82610	.33680	.01296	.89080	.04560	.03590	-.00140	.00060	2.43290
789	21.253	-1.85340	.90990	.40130	.02310	1.03980	.04770	.03400	-.00050	.00110	2.23740
788	23.336	-1.84570	.93610	.45520	.05140	1.03980	.04770	.03400	.00040	.00850	2.05860
787	25.367	-1.82470	.89950	.48670	.09930	1.02130	.05450	.04100	.00040	.00850	1.84800
786	27.343	-1.78400	.86200	.49980	.11308	1.01190	.09660	.03390	.00040	.00850	1.76570
785	29.261	-1.70600	.03085	.03085	-.00692	.05119	-.00172	.00651	.00012	.00022	.85548

RUN NO. 45/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
847	.093	-1.85340	-.07250	.06000	.04770	-.07240	.06000	.03740	-.00230	.00060	-1.20840
848	2.133	-1.86080	.03470	.05990	.04560	.05680	.05860	.03280	-.00300	.00150	.57930
849	4.209	-1.85240	.14750	.09600	.04010	.15190	.05500	.03680	-.00250	.00130	2.23410
847	6.308	-1.84870	.26040	.09310	.03010	.26808	.05380	.03800	-.00240	.00140	3.13570
847	8.444	-1.84150	.35730	.10540	.02700	.36910	.05280	.03070	-.00250	.00430	3.35840
847	10.574	-1.83850	.44970	.13740	.02800	.44970	.05260	.02980	-.00270	.00430	3.26930
849	12.701	-1.82810	.53760	.17560	.02690	.56310	.05310	.03270	-.00240	.00320	3.05120
847	14.816	-1.83430	.63420	.22700	.01700	.67120	.05720	.04160	-.00160	.00240	2.79440
848	16.985	-1.83300	.72840	.28460	.0210	.77980	.05940	.03980	-.00080	.00110	2.55950
847	19.145	-1.83370	.81960	.34690	.01610	.88800	.05890	.03560	.00050	.00020	2.36350
846	21.274	-1.85540	.91690	.40420	.03000	.95460	.05820	.03220	-.00230	.00040	2.17130
845	23.372	-1.85220	.91690	.46410	.03780	1.02580	.06220	.03110	.00410	.00070	1.97590
847	25.397	-1.83510	.87300	.49200	.10560	.99970	.07080	.04490	.00300	.00020	1.77460
848	27.363	-1.79210	.86180	.51530	.11028	1.01890	.07820	.04900	.00300	.00020	1.71110
849	29.264	-1.70600	.03264	.03264	-.00182	.05371	-.00120	.00014	-.00007	.00017	.82430

GRADIENT

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA =
AILRON =
-2.000 ELEVON = .000
.000 BDFAP = -7.170

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
902	.083	-1.90310	-.05140	.07190	.04200	-.05130	.07160	.04170	-.00300	-.00080	-.71810
902	2.158	-1.87480	.05910	.07460	.03220	.07180	.07200	.04190	-.00270	.00070	-.92510
899	4.250	-1.86130	.17540	.08300	.02760	.18110	.06980	.04030	-.00276	.00040	2.14350
900	6.361	-1.84970	.27890	.10170	.02330	.28840	.07020	.03330	-.00210	.00150	2.74160
899	8.466	-1.84550	.36820	.12540	.02070	.38270	.06980	.03250	-.00150	.00410	2.93580
900	10.607	-1.83980	.46610	.15820	.01730	.48730	.06970	.03440	-.00090	.00410	2.94680
900	12.735	-1.83510	.55720	.19840	.01280	.58720	.06970	.03660	-.00010	.00230	2.82870
900	14.861	-1.82660	.65398	.24952	.00380	.69610	.07340	.02510	-.00050	.00210	2.62160
900	17.041	-1.81970	.74590	.30660	.00290	.80280	.07360	.02490	.00120	.00120	2.44080
899	19.211	-1.81420	.83290	.36900	.00230	.90790	.07440	.02970	.00330	.00120	2.25730
899	21.354	-1.80470	.89280	.43240	.00190	.98890	.07760	.02890	.00610	.00060	2.06490
897	23.427	-1.79470	.90310	.47770	.00160	1.01860	.07920	.01900	.01080	.00380	1.89070
901	25.491	-1.77950	.89420	.51880	.0010	1.05040	.08350	.04830	-.00100	-.00420	1.72350
902	26.491	-1.77950	.90740	.54680	.0010	1.05570	.08390	.03830	-.00420	-.00130	1.65180
GRADIENT		.01003	.00276	.00276	-.00345	.05577	-.00043	-.00034	.00007	.00028	.64942

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
950	.061	-1.85610	-.05740	.10100	.05280	-.05730	.10100	.02790	-.00169	-.00180	-.58860
951	2.164	-1.87090	.07720	.10380	.03250	.08100	.10080	.03380	-.00090	.00230	-.74330
948	4.269	-1.85810	.20750	.11450	.01100	.21550	.09880	.03680	-.00050	.00170	1.81180
948	6.394	-1.84120	.32560	.13320	-.00120	.33840	.09610	.03270	-.00158	.00130	2.44410
949	8.519	-1.84570	.42880	.15860	-.00870	.44730	.09340	.02830	.00050	.00330	2.70190
948	10.680	-1.83190	.52290	.19070	-.01120	.54910	.09070	.02420	.00160	.00430	2.74160
948	12.795	-1.8170	.62410	.23780	-.01630	.66130	.09378	.0346	.00488	.00210	2.62470
948	14.928	-1.80640	.72090	.29170	-.02220	.77110	.09530	.03090	.00560	.00260	2.45970
948	17.128	-1.81230	.81630	.35100	-.02150	.88350	.09500	.03250	.00800	.00160	2.32550
946	19.295	-1.80580	.90030	.41490	-.01490	.98680	.09410	.02780	.01110	.00170	2.17010
947	21.440	-1.79880	.95550	.47980	.00320	1.06330	.09360	.02700	.00300	.00170	2.00840
946	23.525	-1.78860	.96400	.52670	.04270	1.09410	.09820	.02910	.00900	-.00350	1.83010
946	25.596	-1.78130	.95460	.57140	.08190	1.10780	.10210	.00420	.01120	.00650	1.67030
948	28.576	-1.78180	.95940	.59510	.09330	1.12430	.10300	.04280	.00580	-.00180	1.51220
GRADIENT		.00047	.00321	.00321	-.00993	.06483	-.00052	.00207	.00026	-.00002	.56572

(RET014) 02 AUG 78

PARAMETRIC DATA

BETA = -2.000 ELEVON = 0.000
AHLRON = 0.000 BDF = 0.000

TABULATED DATA - QAI61 (ARC 11-97-87-094)
ARC 11-97-87-094 QAI61 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = 0.0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 634 0 RVAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.981	.032	-1.89900	.05770	.11760	.06060	-.05750	1.1770	.03270	-.00130	.000210	.19060
.980	2.172	-1.87160	.07470	.12110	.03690	.07920	1.1820	.03380	-.00120	.00270	.16160
.979	4.274	-1.86280	.20590	.13200	.01520	.21510	1.1630	.03370	-.00080	.00270	.15950
.978	6.408	-1.84810	.53030	.15340	-.00230	.45300	1.1560	.03210	-.00090	.00170	.15360
.977	8.539	-1.83520	.74430	.17840	-.01630	.65590	1.1050	.02800	-.00120	.00230	.14930
.976	10.682	-1.81750	.85030	.21410	-.02476	.80400	.10930	.02530	-.00130	.00440	.14550
.975	12.840	-1.80010	.93930	.26430	-.03210	.91200	.11200	.02580	-.00150	.00360	.14250
.974	14.976	-1.81410	.99250	.31830	-.03710	.96600	.11090	.02570	-.00160	.00400	.13960
.973	17.189	-1.80250	.95250	.37870	-.04120	1.04160	.11280	.02580	-.00190	.00490	.13760
.972	19.359	-1.80890	.94530	.45130	-.02840	1.12650	.10880	.02320	-.00770	.00480	.13510
.971	21.496	-1.84780	1.00950	.57850	.00070	1.18800	.11370	.01810	-.00560	.00190	.13250
.970	23.616	-1.84820	1.04450	.61200	.05300	1.17100	.11340	.00790	-.00430	.00180	.13040
.969	25.660	-1.81410	1.01890	.63430	.07080	1.18770	.11350	.03650	-.00480	.00180	.12815
.968	26.847	-1.77430	1.01650	.60345	-.01065	.06518	-.00934	.00084	.00012	.0011	.12515
		.00855	.06303								

RUN NO. 654 0 RVAL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.054	.065	-1.85270	-.04380	.14140	.05520	-.04360	1.14150	.02560	-.00250	.00360	.130970
1.051	2.178	-1.86470	.09880	.14550	.02540	.10220	1.14170	.02890	-.00130	.00410	.128490
1.050	4.290	-1.84350	.28850	.16040	-.00070	.25950	.14290	.02470	-.00120	.00350	.12460
1.049	6.409	-1.85310	.34660	.18020	.01690	.36460	.14030	.04150	-.00010	.00260	.122340
1.048	8.539	-1.84490	.43470	.20580	-.02510	.48020	.13580	.03000	-.00010	.00200	.120970
1.039	10.781	-1.82710	.56040	.24390	.03650	.59570	.13549	.02630	-.00110	.00490	.119580
1.047	12.884	-1.82710	.67090	.29880	-.04410	.71860	.13420	.02600	-.00260	.00470	.118390
1.046	14.917	-1.85010	.78940	.34830	.05190	.84210	.13400	.03050	-.00100	.00400	.117530
1.045	17.288	-1.82210	.89370	.41360	.05670	.96370	.13400	.03680	-.00030	.00460	.116930
1.044	19.416	-1.84440	.98300	.48620	-.05330	1.08820	.13270	.04000	-.00090	.00400	.116330
1.043	21.575	-1.88090	1.09730	.56370	-.06630	1.19980	.13170	.03910	-.00150	.00340	.115730
1.042	23.657	-1.86760	1.12320	.63769	-.06530	1.28480	.13240	.04370	-.00100	.00460	.115230
1.041	25.769	-1.82970	1.11810	.68560	-.07980	1.30320	.13220	.02080	-.01470	.00460	.11470
1.040	26.753	-1.76710	1.11630	.71080	-.08190	1.31680	.13230	.08040	-.00002	.00460	.11470
1.038		.00218	.06445	.00450	-.01363	.06740	.00033	.00021	.00034	.00002	.11055

TABULATED DATA - 0A161 (ARC 11-97-87-094)

PAGE 68

ARC 11-97-87-094 0A161 ORBITER

(RE7014) (02 AUG-76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 986.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIIRON =

-2.000 ELEVON =
.000 BDFLAP =

PARAMETRIC DATA

RUN NO. 73/ 0 RNVL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.100	.086	-1.90270	-.03850	.13950	-.03830	.13850	.03480	-.00090	-.00090	.00370	-.27830
1.100	2.170	-1.86700	.09920	.14470	-.04960	.14080	.02700	-.00098	-.00098	.00360	.68550
1.100	4.280	-1.83950	.28900	.15990	-.00300	.14240	.01950	-.00130	-.00130	.00320	1.43350
1.098	6.415	-1.81620	.34270	.18030	-.00700	.14090	.03070	-.00030	-.00030	.00260	1.90030
1.098	8.559	-1.83620	.44740	.20860	-.02620	.13770	.03070	-.00040	-.00040	.00240	2.16650
1.095	10.719	-1.82930	.53000	.24100	-.03470	.13390	.03110	.03050	.03050	.00470	2.28470
1.093	12.871	-1.81090	.66810	.28750	-.04440	.13190	.02980	-.00100	-.00100	.00370	2.34670
1.097	15.034	-1.85360	.78200	.34790	-.05620	.13320	.04060	-.00360	-.00360	-.00080	2.24750
1.097	17.249	-1.90770	.88350	.41340	-.06270	.13260	.04290	-.00090	-.00090	.00090	2.13640
1.099	19.427	-1.88760	.97340	.48410	-.06700	.12880	.03770	-.00030	-.00030	.00110	2.08060
1.099	21.564	-1.87340	1.04430	.55550	-.06330	.12550	.03810	.00700	.00700	.00040	1.87980
1.099	23.694	-1.86710	1.10880	.62710	-.05640	.11920	.04350	.00260	.00260	.00070	1.75630
1.098	25.782	-1.82550	1.13350	.69640	-.04180	.13050	.02890	.00600	.00600	.00400	1.53700
1.098	26.770	-1.76890	1.14440	.72180	-.03250	.12900	.01830	.00910	.00910	.00430	1.35560
1.098	GRADIENT	.01517	.06364	.08510	-.04251	.00083	-.00083	-.00064	-.00064	-.00012	.48555

RUN NO. 76/ 0 RNVL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.150	.050	-1.88070	-.02810	.14340	-.02790	.14340	.02990	-.00300	-.00300	.00320	-.15580
1.150	2.150	-1.86420	.10150	.14860	-.01370	.14460	.03060	-.00230	-.00230	.00320	.68360
1.150	4.270	-1.85000	.22530	.16100	-.00880	.14380	.02900	-.00190	-.00190	.00320	1.39950
1.148	6.402	-1.85520	.34420	.18110	-.02840	.14190	.03310	-.00060	-.00060	.00300	1.88410
1.148	8.549	-1.84070	.44910	.20820	-.03770	.13910	.02920	-.00090	-.00090	.00300	2.15720
1.148	10.714	-1.82760	.55220	.24130	-.04280	.13450	.03090	-.00100	-.00100	.00300	2.28040
1.147	12.865	-1.82330	.68280	.28736	-.05080	.13250	.03230	-.00130	-.00130	.00450	2.30760
1.148	15.028	-1.85960	.77510	.34520	-.06390	.13250	.03940	-.00200	-.00200	.00020	2.24530
1.149	17.237	-1.90830	.87730	.40960	-.07100	.13300	.03940	-.00610	-.00610	.00020	2.12740
1.149	19.411	-1.89390	.95820	.47660	-.07480	.13110	.03750	.00170	.00170	.00240	2.01020
1.151	21.585	-1.86230	1.01950	.54150	-.06470	.12880	.02250	.00740	.00740	.00660	1.88270
1.150	23.681	-1.86080	1.07710	.61010	-.05640	.12610	.01820	.00930	.00930	.00540	1.75340
1.150	25.779	-1.83030	1.12190	.68060	-.04800	.12490	.02020	.00950	.00950	.00230	1.64850
1.150	26.787	-1.77950	1.13830	.71020	-.04180	.12100	.02370	.00860	.00860	.00280	1.50370
1.146	GRADIENT	.00256	.06019	.08418	-.01233	.00008	-.00008	-.00026	-.00026	.00060	.37893

(RE7014) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = -0.000
ALLRON = 0.000 EDFLAP = -7.170

TABULATED DATA - 0AL61 (ARC 11-97-87-094)
ARC 11-97-87-094 0AL61 ORBITER

REFERENCE DATA

SREF = 2890.0000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = 0000. IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0080 IN. Z0
SCALE = .0300

RUN NO. 894 0 RUN/L = 4.26 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.201	0.084	-1.89680	-0.0890	14560	03430	-0.0880	14560	03390	-0.0260	00270	-0.12540
1.202	2.153	-1.87610	10180	14550	00900	10730	14560	03490	-0.0200	00290	68050
1.199	4.262	-1.87440	22840	16200	-0.0380	23380	14500	03880	-0.0990	00330	1.37300
1.193	6.390	-1.85460	33720	18200	-0.0250	35840	14340	03270	-0.0070	00310	1.89270
1.196	8.549	-1.82470	45020	20920	-0.0430	47630	14000	02270	-0.0190	00340	2.15210
1.198	10.711	-1.81900	55630	24220	-0.0610	58770	13540	02940	-0.0140	00340	2.27950
1.197	12.861	-1.82560	68210	28670	-0.0700	70880	13410	03680	-0.0100	00340	2.29330
1.202	15.014	-1.86350	76080	34400	-0.0820	82400	13520	04510	-0.0150	00280	2.21170
1.200	17.231	-1.92200	85760	40860	-0.0910	94010	13620	05180	-0.0220	00290	2.09850
1.197	19.408	-1.98700	94330	47440	-0.1070	1.0730	13400	06380	-0.0180	00260	1.97270
1.197	21.553	-1.86270	1.0670	53750	-0.1370	1.1370	13000	07100	-0.0100	00360	1.76270
1.197	23.682	-1.86750	1.0670	60530	-0.0810	1.2830	12580	02140	-0.0810	00470	1.65380
1.195	25.784	-1.83630	1.1220	67250	-0.0530	1.2940	12180	02630	-0.0930	00620	1.80290
1.197	26.811	-1.81110	1.1220	70280	-0.0490	1.3200	11980	01300	-0.0900	00814	3.5849
		0.0344	0.05760	00393	-0.01151	06028	-0.00014	00120	0.0041		

RUN NO. 884 0 RUN/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.299	0.039	-1.85990	-0.01010	14730	02423	-0.01000	14730	02980	-0.0340	00210	-0.09820
1.299	2.131	-1.86150	09890	15000	0.220	10440	14620	02740	-0.0270	00260	65230
1.293	4.296	-1.86060	21010	16050	-0.0180	22140	14460	03240	-0.0150	00300	1.30890
1.296	6.364	-1.86680	32180	17970	-0.0370	33970	14230	03480	-0.0070	00350	1.79080
1.296	8.512	-1.84080	42620	20440	-0.0490	45170	13910	03160	-0.0070	00320	2.08450
1.295	10.673	-1.84050	53540	23980	-0.0640	57030	13650	03750	-0.0010	00260	2.23180
1.295	12.821	-1.84080	64020	28470	-0.0760	69740	13560	04220	0.0010	00350	2.24870
1.295	14.976	-1.85360	73450	33690	-0.0830	79830	13470	03450	0.0100	00390	2.16870
1.296	17.182	-1.90540	82460	39410	-0.0880	90420	13300	03410	0.0100	00390	1.97640
1.294	19.364	-1.89810	90250	45660	-0.0910	1.00280	13170	03520	0.0330	00350	1.85780
1.293	21.521	-1.86540	97930	52480	-0.0910	1.10410	12860	02840	0.0330	00450	1.75280
1.295	23.641	-1.86280	1.04150	59250	-0.08520	1.19170	12510	02260	0.0810	00390	1.65130
1.295	25.757	-1.82070	1.09670	66410	-0.07830	1.27630	12160	01630	0.0880	00440	1.59130
1.295	26.793	-1.82750	1.12030	69870	-0.07350	1.31530	11950	01110	0.1110	00440	3.2814
		0.0017	0.05247	00315	-0.01006	05814	-0.00064	00062	0.0036	00021	

(RE7014) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ATLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A181 (ARC 11-87-87-084)

ARC 11-87-87-084 0A181 ORBITER

REFERENCE DATA

SREF = 2690.0800 SQ.FT. XMRP = 1076.6900 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.401	.049	-1.8880	.00470	.14600	.01530	.00450	.14600	.02708	-.00260	.00190	-.03190
1.401	2.119	-1.86330	.09720	.14800	-.00350	.10260	.14430	.02590	-.00220	.00240	.65680
1.402	4.213	-1.84060	.20270	.15750	-.02120	.21370	.14280	.01940	-.00230	.00260	1.26660
1.402	6.336	-1.87680	.30570	.17440	-.03850	.32310	.13950	.04060	.00090	.00340	1.75360
1.399	8.483	-1.85530	.40470	.19850	-.05100	.42950	.13650	.03460	.00050	.00270	2.03840
1.399	10.645	-1.82440	.50430	.23230	-.06440	.53870	.13510	.02580	-.00030	.00230	2.17190
1.397	12.783	-1.85190	.60140	.27380	-.08330	.64710	.13390	.03280	.00030	.00180	2.19680
1.399	14.932	-1.87970	.69050	.31940	-.09130	.74950	.13070	.04010	.00210	.00110	2.16440
1.399	17.145	-1.91350	.78270	.37520	-.09510	.85850	.12780	.03270	.00250	.00350	2.08620
1.399	19.323	-1.86748	.86580	.43640	-.09310	.96150	.12530	.02120	.00310	.00290	1.98430
1.397	21.483	-1.86990	.94090	.50148	-.09310	1.05920	.11850	.03950	.00490	.00298	1.87680
1.397	23.608	-1.89360	1.00350	.56790	-.08940	1.14690	.11650	.01890	.00950	.00370	1.76590
1.398	25.732	-1.83400	1.06010	.63910	-.08170	1.23250	.11590	.01250	.00950	.00408	1.65860
1.398	26.778	-1.80490	1.08498	.67620	-.07656	1.27280	.11510	.00250	.01000	.00450	1.60380
1.385	GRADIENT	.01153	.04981	.00277	-.00877	.05241	-.00061	-.00279	.00007	.00017	.31654

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.556	.026	-2.58840	-.01870	.13960	.01020	.01820	.13960	.03330	-.00090	.00110	-.13420
1.556	2.023	-2.58750	.07440	.13980	-.00640	.07938	.13710	.03130	-.00060	.00130	.53250
1.556	4.098	-2.58310	.16680	.14710	-.02150	.17690	.13480	.03120	.00010	.00140	1.13430
1.556	6.169	-2.58890	.26010	.16100	-.03670	.27590	.13210	.03030	.00060	.00150	1.61530
1.556	8.244	-2.58790	.35010	.18270	-.04950	.37260	.13060	.03020	.00070	.00170	1.91630
1.556	10.354	-2.58710	.44180	.24210	-.06410	.45170	.12700	.03210	.00110	.00150	2.11390
1.556	12.433	-2.58320	.53098	.28040	-.07230	.51180	.12420	.03270	.00170	.00150	2.10720
1.556	14.570	-2.58140	.62840	.37820	-.08270	.62220	.11798	.03350	.00370	.00150	1.98470
1.556	16.682	-2.57670	.73070	.43540	-.09030	.72890	.11420	.03130	.00530	.00170	1.90260
1.556	18.785	-2.57510	.82950	.50040	-.09880	.82890	.11160	.02860	.00700	.00170	1.80340
1.556	20.775	-2.57050	.96450	.56780	-.08850	1.02590	.10850	.02530	.00870	.00190	1.69880
1.556	22.798	-2.57050	.98590	.60370	-.08850	1.11390	.10820	.02720	.00920	.00190	1.64970
1.556	24.865	-2.57040	.98590	.60370	-.08850	1.15950	.10820	.02720	.00920	.00190	1.64970
1.556	26.892	-2.57040	.98590	.60370	-.08850	1.15950	.10820	.02720	.00920	.00190	1.64970
1.556	GRADIENT	.00018	.04555	.00185	-.00778	.04883	-.00118	-.00051	.00025	.00007	.31137

TABULATED DATA - 0A161 (ARC 11-97-87-09#)

ARC 11-97-87-09# 0A161 ORBITER

(RE7014) (02 AUG 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0500

BETA =
 AIRLON =

-2.000 ELEVON = .000
 .000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 329/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CX	CA	CY	CYN	CBL	L/D
1.750	-1.155	-2.40120	-0.01940	.13510	.00130	-.01970	.13510	.03180	.00010	.00080	-.14330
1.750	.065	-2.41380	-0.01900	.13490	.00130	-.01890	.13490	.03180	.00010	.00080	-.14090
1.750	1.821	-2.40490	.06340	.13440	-.01140	.06760	.13230	.03070	.00060	.00080	.47160
1.750	3.885	-2.40710	.14940	.13960	-.02400	.15750	.12920	.02900	.00080	.00080	1.06310
1.750	9.944	-2.40770	.23080	.19180	-.03620	.24520	.12700	.02860	.00150	.00070	1.52060
1.750	10.128	-2.40770	.38990	.19590	-.05390	.41730	.12450	.02760	.00170	.00090	1.98340
1.750	12.127	-2.40550	.46320	.22410	-.05940	.50000	.12180	.02770	.00170	.00120	2.06680
1.750	14.167	-2.40650	.53700	.25760	-.06310	.58370	.11830	.03030	.00190	.00140	2.08500
1.750	16.285	-2.40480	.61080	.29840	-.06640	.66980	.11480	.02940	.00290	.00140	2.04910
1.750	18.379	-2.40120	.68560	.34460	-.07350	.75520	.11090	.02680	.00410	.00150	1.98940
1.750	20.395	-2.40090	.76030	.39720	-.07710	.85110	.10730	.02740	.00550	.00140	1.91410
1.750	22.471	-2.39740	.82960	.45700	-.07960	.94130	.10520	.02650	.00640	.00160	1.81950
1.750	24.528	-2.39430	.89720	.52190	-.08150	1.03290	.10240	.02590	.00760	.00150	1.71900
1.750	25.544	-2.39120	.93030	.55620	-.08350	1.07920	.10070	.02400	.00820	.00160	1.67260
GRADIENT		.00007	.04268	.00106	-.00645	.04501	-.00142	-.00070	.00018	.00000	.30765

RUN NO. 332/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CX	CA	CY	CYN	CBL	L/D
1.997	-1.142	-2.93980	-.02450	.12980	-.00730	-.02480	.12980	.03810	.00000	.00100	-.18890
1.997	1.764	-2.93620	.04920	.12920	-.01610	.05320	.12660	.03630	.00080	.00080	.38410
1.997	3.734	-2.93480	.12370	.13190	-.02500	.13200	.12360	.03430	.00100	.00080	.93730
1.997	6.125	-2.93560	.20770	.14340	-.03350	.22180	.12040	.03300	.00220	.00050	1.44847
1.997	10.252	-2.93310	.32480	.16180	-.04060	.38150	.11580	.03300	.00230	.00080	1.95100
1.997	14.386	-2.93350	.51680	.24500	-.04780	.58150	.10890	.03480	.00380	.00120	2.10940
1.997	16.537	-2.93080	.65500	.33230	-.05110	.73680	.10490	.02970	.00530	.00140	2.00300
1.997	18.629	-2.92800	.74220	.38550	-.05430	.83050	.09900	.02780	.00670	.00110	1.92470
1.997	20.663	-2.92560	.79360	.43620	-.05740	.89980	.09620	.02780	.00830	.00120	1.81730
1.997	22.719	-2.92250	.82800	.50590	-.06130	.99970	.09190	.02580	.00910	.00110	1.73210
1.997	24.800	-2.91920	.88360	.51990	-.06430	1.0970	.08540	.02570	.01090	.00140	1.69970
1.997	26.868	-2.91760	.93827	.58055	-.06740	1.2110	.08120	.02570	.01100	.00140	1.69970
GRADIENT		.09103	.03827	.00055	-.00457	.04049	-.00160	-.00098	.00026	-.00005	.29079

(RE7014) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = 7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 50. FT. XMRP = 1078.6900 IN. XO
LREF = 474.8600 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.250	1.133	-3.03390	-0.3420	1.2030	-0.1200	-0.3440	1.2028	0.4740	-0.0328	0.0140	-28.10
2.250	1.849	-3.03220	0.2850	1.1880	0.1740	0.3230	1.1798	0.4280	-0.0210	0.0120	23.990
2.250	3.900	-3.03120	0.9140	1.2180	-0.2280	0.9550	1.1530	0.3980	-0.0140	0.0120	750.40
2.250	5.951	-3.03130	1.5320	1.2930	-0.2700	1.6380	1.1270	0.3780	-0.0040	0.0110	1.18520
2.250	8.005	-3.03120	2.1630	1.4130	-0.2920	2.3390	1.0980	0.3790	0.0000	0.0130	1.53090
2.250	10.056	-3.02950	2.8130	1.5900	-0.3030	3.0470	1.0740	0.3680	0.0030	0.0160	1.76900
2.250	12.087	-3.02800	3.4910	1.8210	-0.3350	3.7950	1.0500	0.3520	0.0070	0.0180	1.91710
2.250	14.162	-3.02690	4.1450	2.0980	-0.3680	4.5320	1.0200	0.3380	0.0130	0.0200	1.97580
2.250	16.289	-3.02620	4.8290	2.4450	-0.4080	5.3210	0.9920	0.3490	0.0280	0.0210	1.97490
2.250	18.364	-3.02380	5.4840	2.8380	-0.4320	6.0980	0.9660	0.3190	0.0450	0.0190	1.93210
2.250	20.375	-3.02060	6.1350	3.2770	-0.4620	6.8920	0.9360	0.2930	0.0580	0.0180	1.87230
2.250	22.448	-3.01880	6.7880	3.7800	-0.4970	7.7080	0.9060	0.2940	0.0700	0.0200	1.79250
2.250	24.598	-3.01580	7.4380	4.3480	-0.5390	8.5720	0.8720	0.3000	0.0760	0.0280	1.71050
2.250	25.517	-3.01430	7.7600	4.6610	-0.5690	9.0110	0.8630	0.3030	0.0790	0.0260	1.66490
GRADIENT		0.0057	0.3114	0.8038	-0.0268	0.3320	-0.0122	-0.0188	0.0045	-0.0005	-25.646

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.499	1.117	-1.94050	-0.2910	1.1530	-0.1750	-0.2890	1.1540	0.4370	-0.0050	0.0130	-25.40
2.499	2.151	-1.95020	0.3210	1.1400	-0.2200	0.3640	1.1270	0.4820	0.0030	0.0110	28.190
2.499	4.178	-1.95950	0.8160	1.1610	-0.2330	0.8998	1.0990	0.3830	0.0120	0.0100	702.90
2.499	6.214	-1.96710	1.4050	1.2250	-0.2530	1.5298	1.0660	0.3680	0.0190	0.0100	1.14640
2.499	8.255	-1.97330	2.0200	1.3380	-0.2840	2.1910	1.0350	0.3580	0.0220	0.0120	1.50940
2.499	10.291	-1.97890	2.6500	1.5130	-0.2780	2.8780	1.0150	0.3540	0.0270	0.0170	1.75168
2.499	12.332	-1.98100	3.3140	1.7460	-0.2960	3.6100	0.9980	0.3450	0.0280	0.0210	1.89760
2.499	14.379	-1.98380	4.0030	2.0340	-0.3210	4.3830	0.9760	0.3490	0.0350	0.0260	1.96810
2.499	16.417	-1.98590	4.6940	2.3590	-0.3500	5.1310	0.9470	0.3290	0.0450	0.0250	1.93020
2.499	18.458	-1.98800	5.3790	2.7350	-0.3750	5.8730	0.9230	0.3050	0.0520	0.0250	1.86330
2.499	20.505	-1.97800	5.9140	3.1740	-0.4060	6.6510	0.8810	0.2830	0.0560	0.0270	1.78930
2.499	22.548	-1.97500	6.5350	3.6510	-0.4410	7.4400	0.8748	0.2980	0.0530	0.0270	1.69830
2.499	24.590	-1.95960	7.1380	4.2130	-0.4720	8.2480	0.8520	0.2910	0.0650	0.0260	1.65330
2.499	25.613	-1.95440	7.4480	4.5050	-0.4950	8.6630	0.8420	0.2890	0.0620	0.0260	1.65330
GRADIENT		-0.0468	0.2726	0.8020	-0.0143	0.2925	-0.0135	-0.0133	0.0042	-0.0007	-23.522

(RE7014) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09A)

ARC 11-97-87-09A 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6880 IN. XO
LREF = 474.8000 IN. YMRP = .0800 IN. YO
RREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 424/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	1.74	-1.86689	0.3890	0.1070	0.2280	0.3880	0.1070	0.4020	0.0050	0.0080	37890
3.499	1.842	-1.87520	0.0850	0.0950	0.2230	0.1010	0.0940	0.3640	0.0000	0.0110	06520
3.499	3.868	-1.88680	0.3430	0.0980	0.2170	0.0810	0.0570	0.3710	0.0080	0.0130	54370
3.499	5.902	-1.89250	0.1090	0.1030	0.2160	0.1630	0.0920	0.3300	0.0100	0.0160	01860
3.499	7.924	-1.90300	0.1600	0.1130	0.2150	0.1750	0.0950	0.3440	0.0150	0.0190	01510
3.499	9.947	-1.91350	0.2150	0.1250	0.2140	0.2340	0.0840	0.3070	0.0130	0.0240	07590
3.499	11.972	-1.92400	0.2730	0.1470	0.2130	0.2960	0.0670	0.3360	0.0190	0.0290	184930
3.499	14.009	-1.93450	0.3370	0.1720	0.2120	0.3700	0.0570	0.2940	0.0300	0.0330	93880
3.499	16.039	-1.94500	0.3960	0.2030	0.2110	0.4370	0.0390	0.3050	0.0290	0.0330	95170
3.499	18.068	-1.95550	0.4550	0.2360	0.2100	0.5060	0.0140	0.2950	0.0320	0.0340	92500
3.499	20.099	-1.96600	0.5160	0.2768	0.2090	0.5800	0.0780	0.2880	0.0380	0.0320	85390
3.499	22.135	-1.97650	0.5750	0.3198	0.2080	0.6540	0.0780	0.2720	0.0450	0.0300	78820
3.499	24.167	-1.98700	0.6350	0.3730	0.2070	0.7350	0.0770	0.2570	0.0520	0.0280	70130
3.499	26.181	-1.99750	0.6950	0.4010	0.2060	0.7730	0.0760	0.2480	0.0530	0.0280	65810
3.499	28.198	-2.00800	0.7100	0.0071	0.2050	0.8240	0.0173	0.0075	0.0032	0.0012	22771

RUN NO. 427/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	1.74	-1.97800	0.4340	0.0950	0.2370	0.4370	0.0950	0.3400	0.0040	0.0040	45330
3.499	1.842	-1.98900	0.0120	0.0910	0.2270	0.0170	0.0810	0.3670	0.0040	0.0100	01330
3.499	3.868	-1.99950	0.4300	0.0860	0.2140	0.0490	0.0750	0.2920	0.0040	0.0110	47420
3.499	5.902	-2.00800	0.9150	0.0940	0.2090	0.1070	0.0840	0.3230	0.0100	0.0160	97320
3.499	7.924	-2.01230	0.1400	0.1020	0.2080	0.1530	0.0820	0.3130	0.0120	0.0190	136540
3.499	9.947	-2.01770	0.1930	0.1150	0.2070	0.2070	0.0870	0.3210	0.0150	0.0240	166070
3.499	11.972	-2.02270	0.2440	0.1330	0.2060	0.2660	0.0790	0.3440	0.0230	0.0260	183310
3.499	14.009	-2.02770	0.3040	0.1568	0.2050	0.3360	0.0780	0.2870	0.0240	0.0280	154320
3.499	16.039	-2.03210	0.3610	0.1840	0.2040	0.3980	0.0780	0.2770	0.0210	0.0310	156550
3.499	18.068	-2.03610	0.4180	0.2150	0.2030	0.4640	0.0750	0.3030	0.0340	0.0340	129770
3.499	20.099	-2.04060	0.4760	0.2530	0.2020	0.5340	0.0740	0.2800	0.0310	0.0340	128780
3.499	22.135	-2.04530	0.5330	0.29620	0.2010	0.6050	0.0730	0.2530	0.0360	0.0320	180008
3.499	24.167	-2.05030	0.5930	0.34568	0.2000	0.68250	0.07250	0.2460	0.0440	0.0310	171600
3.499	26.181	-2.05570	0.61950	0.37100	0.1990	0.71840	0.07200	0.2500	0.0480	0.0300	166980
3.499	28.198	-2.06130	0.62138	0.00124	0.1980	0.82294	0.0198	0.0119	0.0060	0.0017	22965

(RE7015) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-57-87-094)

ARC 11-57-87-094 0A161 ORBITTER

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.6800 IN. XO.
LREF = 474.8000 IN. YMRP = .0000 IN. YO.
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 414 0 RV/L = 4.23 GRADIENT INTERVAL = -5.08/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.799	.043	.19230	-.07270	.05700	.04360	-.07270	.05700	.00170	-.00010	-.00010	-1.27610
.799	2.122	.21540	.03010	.05610	.04250	.03210	.05490	.00110	-.00030	-.00020	.53570
.798	4.220	.22060	.13660	.05970	.04100	.14060	.04950	-.00070	-.00040	-.00050	2.28760
.798	6.322	.22600	.25120	.07220	.03290	.25760	.04410	.00000	-.00040	-.00020	3.48020
.798	8.439	.23240	.36030	.09520	.02530	.37030	.04130	-.00010	.00020	.00110	3.78330
.798	10.566	.23900	.45756	.12490	.02550	.47260	.03900	.00240	.00030	.00120	3.66130
.797	12.667	.23190	.53950	.16160	.02888	.56140	.03960	.00180	-.00060	.00830	3.33180
.796	14.790	.23590	.63140	.21040	.02150	.66420	.04230	.00750	-.00090	-.00180	3.00060
.796	16.935	.24300	.73660	.27520	.01270	.78480	.04770	.02280	-.00220	-.00340	2.67650
.795	19.054	.24560	.89930	.33330	.01460	.88390	.04630	.00480	-.00310	-.00280	2.45720
.801	21.222	.23730	.93480	.40130	.02610	.98410	.04780	.00230	-.00450	-.00420	2.24240
.795	23.294	.23050	.90600	.45450	.05400	1.03850	.04780	.02360	.00650	-.00540	2.05670
.798	25.339	.18400	.87790	.49930	.11530	1.02920	.05630	.00880	-.00520	-.01270	1.84400
.798	26.291	.00675	.05812	.00065	-.00062	.05107	.05940	-.00068	-.00030	-.00520	1.75620
GRADIENT							-.00180	-.00068	-.00007	-.00010	.95327

RUN NO. 464 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.846	.069	.15520	-.07510	.06040	.04960	-.07500	.06040	-.00090	.00000	-.00020	-1.29378
.848	2.134	.21150	.03210	.05990	.04740	.03440	.05870	-.00490	-.00030	-.00020	.53670
.849	4.227	.20650	.14270	.06660	.04230	.14728	.05590	.00110	.00010	-.00050	2.14358
.847	6.330	.21220	.25610	.08310	.03290	.26370	.05440	.00250	.00030	-.00020	3.08160
.848	8.447	.22660	.35750	.10810	.02870	.36990	.05440	-.00110	.00020	.00080	3.30770
.847	10.569	.22530	.45090	.13790	.02830	.46860	.05280	-.00030	-.00040	.00150	3.27100
.847	12.677	.22150	.53030	.17370	.02960	.56550	.05310	.00440	-.00140	.00040	3.09250
.846	14.810	.23220	.62560	.22470	.02080	.66228	.05740	.00560	-.00170	.00100	2.78340
.847	16.952	.23410	.72460	.28400	.01370	.77590	.06040	.00080	-.00210	-.00240	2.55130
.847	19.089	.22780	.89300	.34490	.01690	.87970	.06050	.00380	-.00350	-.00240	2.35340
.849	21.224	.22680	.91050	.40750	.03150	.96790	.06120	.00610	-.00340	-.00240	2.15970
.845	23.320	.21650	.89280	.46200	.06080	1.01900	.06380	.00630	-.00480	-.00390	1.97090
.847	25.375	.18970	.87950	.50270	.09980	1.02810	.07160	.02590	-.00610	-.01100	1.77590
.848	26.347	.01230	.05233	.00149	.11260	1.01720	.07230	-.00650	-.00250	-.00340	1.70370
GRADIENT					-.00176	.05339	-.00106	.00049	.00002	-.00007	.81373

ORIGINAL PAGE IS
OF POOR QUALITY

(RET015) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-57-57-09+)

ARC 11-57-57-09+ 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SO.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
900	.047	.18810	.06070	.07130	.04600	.06050	.07140	-.08500	-.00010	-.00030	-.85080
903	2.151	.20240	.06470	.07440	.03480	.06750	.07200	-.08070	.00010	-.00000	.86930
899	4.251	.20430	.17190	.08340	.02960	.17750	.07050	-.00050	.00000	-.00030	2.06050
888	6.356	.21080	.27340	.10110	.02340	.28230	.07026	.00030	.00000	-.00070	2.70460
899	8.472	.21290	.35780	.12590	.02170	.38230	.07030	.00220	.00090	.00069	2.92160
902	10.604	.21660	.46270	.15850	.01830	.48400	.07050	.00190	.00000	.00120	2.91950
898	12.723	.21600	.54830	.19540	.01690	.57790	.06990	.00210	.00050	-.00050	2.80580
897	14.865	.21910	.64660	.24620	.00900	.68820	.07208	.00753	-.00080	-.00180	2.62650
901	17.019	.21500	.74470	.30670	.00380	.80180	.07530	.00790	-.00220	-.00170	2.42810
877	19.153	.22950	.82690	.36620	.00890	.90130	.07460	-.00420	-.00308	-.00180	2.25820
856	21.287	.21300	.88520	.42700	.02640	.97980	.07650	.00130	-.00280	-.00070	2.07310
898	23.403	.20930	.91700	.48570	.06380	1.03450	.08150	.02630	.00400	-.00700	1.88790
899	25.440	.19000	.87800	.51250	.11050	1.01300	.08360	.02230	.00000	-.00600	1.71330
900	26.438	.14500	.88620	.54150	.11370	1.04360	.08580	.01700	.00120	-.00200	1.65510
GRADIENT		.09385	.05513	.00289	-.00390	.05666	-.00021	.00107	.00002	.00000	.69251

RUN NO. 52/ 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 57/ 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
950	.053	.19590	.05990	.10040	.05470	.05980	.10040	.00330	.00030	-.00070	-.55650
951	2.162	.21040	.07320	.10450	.03550	.07710	.10170	.00750	.00020	-.00080	.70040
948	4.274	.20680	.20730	.11410	.01190	.21520	.09830	.00648	-.00010	-.00020	1.81760
949	6.394	.21920	.32570	.13300	.00150	.33850	.09590	.00170	.00010	.00030	2.44800
949	8.529	.23390	.42990	.15900	.00900	.44870	.09350	-.00460	.00080	.00200	2.70350
948	10.678	.23170	.53370	.19510	.01570	.56060	.09280	-.00390	.00090	.00230	2.73530
948	12.808	.23380	.61640	.23460	.01480	.69310	.09220	.00270	.00100	.00000	2.62770
947	14.951	.23200	.72170	.28260	.02270	.77270	.09650	.00160	.00160	.00010	2.46680
948	17.111	.23900	.81710	.35220	.02740	.88460	.09620	.00200	.00530	.00150	2.32000
950	19.270	.23710	.91360	.42090	.02700	.98460	.09580	.00180	.00840	.00080	2.17080
950	21.391	.20150	.95290	.47440	.02900	1.06030	.09420	.00190	.00210	-.00490	2.00860
949	23.467	.20930	.94500	.51800	.04950	1.07310	.09880	.00500	.00070	-.00060	1.82440
949	25.549	.20980	.94680	.56700	.08800	1.03880	.10320	.01530	.00310	-.00520	1.66980
949	26.542	.17170	.95110	.59390	.09280	1.0180	.10180	.00120	.00070	-.00430	1.61840
GRADIENT		.00258	.06331	.00325	-.01014	.06516	-.00050	.00073	-.00009	.00012	.57195

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 4.74.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RUN NO. 627 0 RUN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.980	.053	.17530	.06420	.11770	.06330	-.05410	.11780	.00270	.00010	-.00040	-.54550
.981	2.155	.19760	.06940	.12040	.04140	.07390	.11770	.00420	.00010	-.00050	.57650
.980	4.277	.20620	.20300	.13250	.01780	.21230	.11700	.00130	.00050	-.00030	1.53190
.980	6.402	.20880	.32870	.15280	.00190	.34360	.11520	.00390	.00810	.00010	2.15030
.979	8.550	.22320	.44408	.18030	.01600	.46590	.11220	.00100	.00010	.00060	2.46330
.983	10.705	.22410	.58230	.21668	.02580	.58300	.11020	.00240	.00130	.00180	2.65000
.978	12.645	.20960	.65960	.26438	.03400	.70180	.11100	.00440	.00210	.00010	2.49600
.976	14.998	.22620	.75700	.31880	.03760	.81370	.11200	.00480	.00190	.00060	2.37450
.974	17.169	.22070	.85700	.38440	.04020	.93230	.11430	.00570	.00270	.00030	2.22970
.974	19.297	.20580	.93680	.44150	.03890	1.03010	.10710	.00990	.00310	.00020	2.12130
.974	21.443	.20640	1.00880	.50900	.03100	1.12500	.10590	.00750	.00250	.00110	1.98170
.976	23.539	.23350	1.01830	.56150	.0870	1.15790	.10810	.00460	.00150	.00030	1.81350
.977	25.615	.16430	.99810	.60560	.06270	1.16190	.11468	.01680	.00090	.00080	1.64810
.979	26.601	.00731	.99950	.62870	.07470	1.17528	.11460	.00208	.00100	-.00060	1.58980
			.06325	.00350	-.01077	.06543	-.00019	-.00033	-.00009	-.06002	.49177

RUN NO. 674 0 RUN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.062	.059	.20030	.04790	.13890	.05820	-.04780	.13980	-.00010	-.00010	-.00020	-.34510
1.051	2.174	.21030	.09590	.14660	.02568	.10240	.14290	.00190	-.00010	-.00010	.66070
1.050	4.296	.21900	.22780	.16020	.08090	.23920	.14270	-.00120	-.00070	.00000	1.42200
1.048	6.428	.22000	.34670	.17970	.01650	.36460	.13980	.00050	.00060	.00000	1.92890
1.049	8.575	.22700	.45570	.20530	.02650	.48120	.13500	.00320	.00010	.00030	2.23000
1.049	10.737	.23220	.56400	.24280	.03830	.59930	.13350	.00300	.00020	.00150	2.32270
1.050	12.882	.22370	.66630	.29020	.04240	.71430	.13440	-.08070	.00030	.00090	2.28990
1.050	15.047	.22450	.77450	.34960	.05120	.83870	.13650	.00460	.00080	.00090	2.21550
1.049	17.219	.21440	.88720	.41450	.06400	.97020	.13440	.08730	.08110	.00180	2.13960
1.049	19.384	.21990	.99580	.49280	.07440	1.10300	.13440	.00440	.00200	.00090	2.02250
1.049	21.534	.20800	1.08350	.56830	.07850	1.21840	.13090	.00610	.00230	.00050	1.90650
1.050	23.645	.21000	1.10240	.62580	.04480	1.26090	.13420	.00600	.00330	.00010	1.78180
1.048	25.721	.21480	1.11540	.68340	-.01950	1.30150	.13150	-.00020	.00040	.00090	1.63220
1.049	26.716	.15900	1.12210	.70950	-.00980	1.32090	.12840	.00490	.00010	.00080	1.58360
		.00441	.06508	.00503	-.01352	.06773	.00087	-.00055	-.00014	.00035	.41701

GRADIENT

(RE7019) (02 AUG 78)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
AILRON = -7.170
BDELAP = .000

TABULATED DATA - 0A161 (ARC 11-97-87-09+)

ARC 11-97-87-09+ 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ. FT. XMRP = 1076.8800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0360

MACH	ALPHA	BETA	CL	CD	CEM	CN	CA	CY	CYN	CBL	L/D
1.100	.052	.17320	.04580	.13750	.05370	.04570	.13750	.00300	.00000	.00020	.33300
1.099	2.169	.19820	.09680	.14470	.02770	.10220	.14100	.00390	.00000	.00020	.66880
1.101	4.290	.21200	.23090	.15940	.00510	.24220	.14160	.00090	.00070	.00010	1.44890
1.098	6.416	.21600	.34410	.18050	.01810	.36210	.14090	.00140	.00060	.00030	1.90590
1.096	8.570	.22330	.44750	.20660	.03550	.47330	.13760	.00270	.00000	.00040	2.16570
1.095	10.789	.22770	.55450	.24130	.05680	.58980	.13380	.00310	.00060	.00190	2.29820
1.093	12.888	.23350	.67150	.28900	.07700	.71900	.13190	.00360	.00020	.00140	2.32350
1.091	15.063	.2390	.78410	.34780	.09570	.84750	.13210	.00370	.00020	.00280	2.25410
1.089	17.238	.24730	.89370	.41650	.06740	.97700	.13290	.00440	.00250	.00270	2.14580
1.099	19.393	.2590	.98230	.48720	.07190	1.08830	.13340	.00940	.00280	.00030	2.01640
1.101	21.533	.26490	1.03790	.55090	.05700	1.16730	.13170	.00800	.00130	.00040	1.88310
1.100	23.644	.26420	1.08360	.61710	.04320	1.24010	.13070	.00220	.00020	.00030	1.75590
1.101	25.744	.21380	1.12700	.68290	.03990	1.31390	.13010	.00220	.00020	.00120	1.63830
1.097	26.741	.17430	1.14430	.72210	.03430	1.34680	.12990	.00340	.00020	.00120	1.58480
	GRADIENT	.00925	.06529	.00537	.01367	.06793	.00097	.00092	.00017	.00002	.42052

MACH	ALPHA	BETA	CL	CD	CEM	CN	CA	CY	CYN	CBL	L/D
1.149	.054	.20100	.02930	.14400	.04340	.02920	.14410	.00160	.00020	.00020	.20350
1.149	2.160	.22410	.10040	.14870	.01490	.10590	.14480	.00660	.00120	.00030	.67320
1.149	4.276	.28730	.22440	.16160	.00870	.23590	.14440	.00710	.00000	.00010	1.38860
1.146	6.401	.20430	.33970	.18040	.02570	.35770	.14140	.00740	.00000	.00030	1.88350
1.145	8.584	.22240	.45070	.20730	.03770	.47650	.13790	.00480	.00060	.00000	2.17400
1.147	11.727	.25190	.55220	.23930	.04250	.58700	.13230	.00120	.00040	.00170	2.37660
1.147	12.883	.20930	.66570	.28740	.05700	.71300	.13150	.00570	.00050	.00110	2.23170
1.146	15.091	.22300	.76390	.34230	.05700	.82660	.13220	.00330	.00130	.00030	2.12610
1.147	17.226	.20900	.86710	.40790	.06830	.94900	.13290	.00760	.00140	.00070	2.60940
1.149	19.380	.21440	.95890	.47720	.07490	1.06290	.13200	.00440	.00220	.00080	1.88290
1.152	21.517	.19680	1.01520	.53920	.06240	1.14220	.12920	.00610	.00070	.00030	1.76430
1.151	23.638	.20360	1.07150	.60730	.05360	1.22510	.12670	.00200	.00030	.00100	1.65360
1.149	25.740	.20820	1.12390	.67970	.04980	1.30750	.12410	.00390	.00040	.00040	1.60680
1.153	26.759	.15940	1.13910	.70890	.04360	1.33630	.12020	.00690	.00040	.00000	1.60680
	GRADIENT	.00449	.06805	.00417	.01233	.06274	.00007	.00130	.00005	.00002	.37682

(RE7015) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AIR RON = -7.170

TABULATED DATA - 0A18 (ARC 11-87-87-034)
ARC 11-87-87-034 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0000

RUN NO. 82/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.199	.043	.1730	-.02780	.14500	.03600	-.02170	.14500	.00410	-.08020	.00000	-.15030
1.202	2.152	.23630	.09980	.14900	.01000	.10530	.14520	-.00490	-.00210	-.00340	.65960
1.199	4.271	.21440	.22060	.16110	-.01250	.23200	.14420	-.00310	-.00120	-.00020	1.35920
1.198	6.383	.20760	.33660	.18090	-.03190	.35470	.14230	.00620	-.00030	-.00030	1.86080
1.197	8.560	.21820	.44810	.20760	-.04540	.47400	.13860	.00720	-.00010	-.00030	2.15790
1.198	10.727	.26660	.55620	.24210	-.05260	.59050	.13450	.00090	-.00040	.00130	2.29370
1.196	12.878	.20830	.66060	.28720	-.05970	.70800	.13280	.00850	.00070	.00070	2.29990
1.195	15.044	.22560	.75770	.34370	-.06770	.82090	.13520	.00280	-.00110	.00010	2.20470
1.197	17.207	.21570	.85680	.40800	-.07680	.93820	.13460	.00460	-.00130	-.00140	1.99040
1.194	19.382	.21190	.94590	.47480	-.08160	1.04890	.13120	.00730	-.00020	.00110	1.87310
1.194	21.507	.20070	1.00860	.53850	-.07750	1.13580	.12680	.00140	.00390	.00260	1.76470
1.191	23.632	.20310	1.06590	.60380	-.06380	1.21820	.12680	.00830	.00330	.00090	1.65358
1.191	25.741	.20120	1.11220	.67260	-.05660	1.29390	.12280	.00640	-.00080	.00020	1.60830
1.192	26.780	.20390	1.12620	.70020	-.04980	1.32980	.11770	.00640	-.00024	-.00005	.35953
1.195	GRADIENT	.00964	.05735	.00381	-.01148	.06003	-.00619	-.00170			

RUN NO. 87/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.299	.035	.21900	-.01180	.14680	.02510	-.01170	.14680	.01120	-.00240	.00000	-.08050
1.299	2.130	.21900	.09820	.14930	.00380	.10370	.14590	-.00170	-.00160	.00000	.65800
1.298	4.248	.24450	.21060	.16020	-.01620	.22190	.14420	-.01430	-.00290	-.00020	1.31440
1.297	6.365	.20010	.31930	.17840	-.03920	.33710	.14190	.01200	-.00030	.00020	1.79000
1.295	8.527	.22450	.42560	.20330	-.04840	.45040	.13940	.00720	.00100	-.00030	2.09010
1.295	10.691	.21410	.53600	.23860	-.06370	.57090	.13620	.00050	-.00050	.00050	2.24460
1.294	12.841	.24240	.64240	.28450	-.07680	.68960	.13480	.00800	.00080	.00160	2.25620
1.295	14.998	.22900	.73060	.34350	-.08130	.79230	.13430	.00070	-.00070	.00050	2.18400
1.295	17.167	.22900	.82450	.39530	-.08870	.90450	.13250	.00170	.00070	.00050	2.06590
1.294	19.319	.20250	.96610	.45800	-.09100	1.00560	.12900	.00140	-.00140	.00050	1.97630
1.295	21.453	.20120	.98260	.52370	-.09120	1.10420	.12890	.00340	-.00140	.00060	1.87240
1.295	23.593	.20560	1.04300	.59200	-.08760	1.19280	.12500	.00370	.00220	.00070	1.76290
1.295	25.716	.22210	1.09750	.66210	-.07830	1.27620	.12830	-.00360	-.00220	.00120	1.65170
1.295	GRADIENT	.21470	1.11730	.69480	-.07230	1.34180	.11970	-.00160	-.00180	-.00005	1.60180
		.05607	.05280	.00316	-.00980	.05546	-.00062	-.00075			.33125

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TABULATED DATA - 0A161 (ARC 11-57-87-094)

(RE7015) (02 AUG 78)

ARC 11-57-87-094 0A161 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1078.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = .000 ELEVON = .000
 AILERON = .000 BDFLAP = -7.170

RUN NO. 92/ 0 RML = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.403	.017	.17260	-.00710	.14480	-.01620	-.00700	.14480	.00500	-.00030	.00010	-.04870
1.403	2.115	.21540	.09550	.14660	-.00250	.10090	.14300	-.00370	-.00080	-.00010	.65170
1.402	4.282	.23980	.20130	.15640	-.02970	.21230	.14120	-.01610	-.00240	-.00030	1.28740
1.399	6.346	.21640	.30480	.17340	-.03740	.32210	.13860	-.00080	-.00080	-.00050	1.75810
1.399	8.495	.20770	.40520	.19780	-.05130	.43000	.13580	-.00060	-.00060	-.00050	2.04840
1.397	10.650	.19940	.50230	.23030	-.06380	.53620	.13350	.01700	.00090	.00080	2.18070
1.398	12.795	.20280	.60290	.27260	-.07710	.64830	.13230	.01220	.00040	.00030	2.21140
1.399	14.958	.23760	.69630	.32120	-.08640	.75560	.13060	-.00410	-.00020	.00030	2.16790
1.399	17.124	.19910	.78540	.37570	-.09320	.86126	.12780	.01500	.00090	.00090	2.09060
1.398	19.282	.19130	.86990	.43590	-.09770	.96450	.12540	.01970	-.00040	.00070	1.87820
1.388	21.427	.28150	.93890	.49380	-.09490	1.06660	.12240	.00570	-.00050	.00040	1.76970
1.387	23.572	.20650	1.00660	.55880	-.09120	1.15010	.11880	.00520	-.00040	.00050	1.65880
1.395	25.683	.21270	1.08920	.63940	-.08320	1.23240	.11640	.00420	-.00120	.00070	1.60740
1.404	27.748	.22540	1.08770	.67678	-.07890	1.27590	.11470	-.00800	-.00050	-.00010	.31772
1.396	GRADIENT	.01598	.04956	.00276	-.00877	.05215	-.00086	-.00502			

RUN NO. 323/ 0 RML = 3.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.556	.042	-.53920	-.01838	.13920	-.00990	-.01828	.13920	.00070	.00020	.00020	-.13170
1.556	2.029	-.54070	.07260	.13930	-.00380	.07750	.13570	.00160	.00020	.00020	.52090
1.556	4.106	-.54170	.16870	.14650	-.02200	.17870	.13410	.00250	.00030	.00030	1.15110
1.556	6.177	-.54160	.28250	.16110	-.03720	.27830	.13190	.00330	.00010	.00030	1.62900
1.556	8.246	-.54240	.35080	.18370	-.05080	.37358	.13150	.00440	.00040	.00030	1.90360
1.556	10.312	-.54070	.43260	.21040	-.05940	.46330	.12960	.00410	.00030	.00010	2.05610
1.556	12.384	-.53840	.51180	.24180	-.06450	.55170	.12670	.00390	.00040	.00050	2.11690
1.556	14.439	-.53840	.59520	.28160	-.07200	.64650	.12430	.00360	.00040	.00050	2.11400
1.556	16.587	-.53820	.67720	.32770	-.07890	.74260	.11930	.00340	.00040	.00050	2.08530
1.556	18.686	-.53890	.75870	.38150	-.08460	.84090	.11426	.00330	.00030	.00040	1.90840
1.556	20.723	-.53880	.83930	.43940	-.08930	.93980	.11260	.00300	.00030	.00040	1.60870
1.585	22.812	-.52810	.91320	.50490	-.09310	1.03760	.11140	.00300	.00030	.00030	1.69380
1.585	24.876	-.52780	.97510	.57370	-.09280	1.12600	.10930	.00300	.00020	.00030	1.64680
1.585	25.901	-.51950	1.00470	.60930	-.09080	1.16990	.10930	.00300	.00020	.00030	.31560
1.556	GRADIENT	-.00051	.04602	.00181	-.00785	.04846	-.00126	.00044			

(RE7015) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LRPF = 474.8000 IN. YMRP = .0000 IN. YO
BRPF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 3287 0 RVAL = 3.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	-.007	-.35290	-.02070	.13430	.00270	-.02070	.13430	-.00160	-.00030	.00002	-.15420
1.750	1.986	-.35450	.06380	.13380	-.01030	.06820	.13150	-.00040	-.00040	.00000	.47560
1.750	6.104	-.35440	.23190	.15270	-.03570	.24680	.12720	.00090	-.00060	.00000	1.51860
1.750	8.153	-.35428	.31030	.17280	-.04590	.33160	.12700	.00120	-.00060	.00000	1.79560
1.750	10.205	-.35460	.39060	.19810	-.05380	.41950	.12580	.00270	-.00050	.00000	1.97120
1.750	12.211	-.35320	.46830	.22610	-.05910	.50260	.12260	.00330	-.00070	.00010	2.05820
1.750	14.278	-.35050	.53940	.25910	-.06210	.58650	.11810	.00330	-.00080	.00020	2.38130
1.750	16.403	-.34710	.61660	.30156	-.06550	.67870	.11500	.00340	-.00100	.00010	2.04550
1.750	18.492	-.34538	.68188	.34830	-.06880	.76550	.11090	.00510	-.00110	.00020	1.96530
1.750	20.503	-.33980	.76440	.40090	-.07310	.85640	.10780	.06370	-.00140	.00010	1.90680
1.750	22.574	-.33640	.83540	.46190	-.07710	.94880	.10580	.00470	-.00140	.00020	1.80850
1.750	24.628	-.33200	.90170	.52728	-.08120	1.03840	.10330	.00480	-.00140	.00030	1.71030
1.750	25.618	-.32960	.93640	.56330	-.08360	1.08800	.10230	.00540	-.00160	.00030	1.65230
1.750	GRADIENT	-.00080	.04230	-.00025	-.00653	.04461	-.00140	.00060	-.00005	.00000	.31581

RUN NO. 3337 0 RVAL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.997	-.022	-.88650	-.00600	.12780	-.00760	-.80600	.12780	.00620	-.00070	.00020	-.04660
1.997	2.012	-.88610	.07310	.12750	-.01780	.07750	.12480	.00630	-.00070	.00020	.57300
1.997	4.075	-.88540	.14660	.13270	-.02820	.15550	.12200	.00540	-.00080	.00010	1.10350
1.997	6.134	-.88498	.22850	.14390	-.03330	.23460	.11950	.00500	-.00050	.00010	1.53240
1.997	10.267	-.88520	.36890	.18420	-.04100	.39500	.11560	.00730	-.00040	.00020	1.99810
1.997	12.302	-.88330	.44070	.21050	-.04380	.47550	.11180	.00730	-.00040	.00020	2.09560
1.997	13.631	-.88380	.49180	.23260	-.04590	.53270	.11020	.00810	-.00040	.00020	2.14430
1.997	15.531	-.88050	.53470	.26650	-.05080	.65176	.10540	.06930	-.00010	.00020	2.07670
1.997	16.621	-.87730	.66740	.33290	-.05350	.73870	.10240	.00840	.00000	.00010	2.00460
1.997	18.631	-.87510	.74050	.38480	-.05720	.82860	.10130	.00850	.00030	.00010	1.93440
1.997	21.655	-.87080	.80840	.44270	-.06170	.91670	.09600	.01030	.00030	.00010	1.85590
1.997	22.729	-.86500	.89100	.49280	-.06780	.91670	.09600	.01000	.00060	.00010	1.70440
1.997	25.274	GRADIENT	.03721	.00120	-.00434	.05941	-.00142	.00020	.00002	-.00002	.28055

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6808 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 SDFLAP = -7.170

RUN NO. 3474 0 RN/L = 3.04 GRADIENT INTERVAL = -5.08/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CX	CYN	CBL	L/D
2.250	1.128	.97888	.03390	.12070	.01090	.03420	.12060	.01090	.00120	.00030	.28120
2.250	1.853	.97770	.03250	.12000	.01780	.03670	.11890	.00890	.00400	.00330	.27340
2.250	3.911	.97860	.09180	.12180	.02710	.09990	.11530	.00970	.00400	.00400	.75370
2.250	5.961	.97880	.15840	.12060	.02710	.16800	.11180	.00930	.00670	.00400	1.20880
2.250	8.013	.97850	.21770	.14130	.02940	.23530	.10950	.00940	.00300	.00400	1.54130
2.250	10.050	.97810	.28290	.19920	.03690	.30830	.10730	.01030	.00300	.00400	1.77750
2.250	12.090	.97720	.35560	.18210	.03320	.38090	.10460	.01090	.00300	.00400	1.92260
2.250	14.167	.97630	.41870	.21090	.03680	.45260	.10200	.01010	.00300	.00400	1.98310
2.250	16.292	.97820	.48930	.24640	.04330	.53880	.09920	.00880	.00300	.00400	1.98590
2.250	18.366	.97630	.55500	.28590	.04330	.61680	.09640	.00880	.00300	.00400	1.94340
2.250	20.377	.97500	.62020	.33010	.04620	.69640	.09350	.01030	.00300	.00400	1.87880
2.250	22.448	.97100	.68440	.38090	.04980	.77800	.09070	.01030	.00300	.00400	1.79580
2.250	24.497	.96800	.74710	.43730	.05380	.86120	.08820	.01160	.00300	.00400	1.70840
2.250	26.513	.96410	.78150	.46920	.05580	.90740	.08580	.00970	.00300	.00400	1.66570
2.250	GRADIENT	.00005	.03113	.00328	.00277	.03321	.00132	.00029	.00003	.00002	.25525

RUN NO. 4187 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CX	CYN	CBL	L/D
2.499	1.118	.04510	.02830	.11490	.01840	.02810	.11490	.00720	.00860	.00040	.24640
2.499	2.156	.04370	.02680	.11370	.01950	.03110	.11260	.00850	.00070	.00200	.23580
2.499	4.185	.04340	.08190	.11710	.02230	.09030	.11090	.00790	.00080	.00060	.69350
2.499	6.219	.04220	.13930	.12180	.02460	.15170	.10590	.00770	.00050	.00030	1.14420
2.499	8.253	.04020	.19870	.13310	.02570	.21670	.10310	.00800	.00050	.00070	1.49890
2.499	10.292	.03900	.26230	.14990	.02650	.28490	.10060	.00810	.00050	.00070	1.79060
2.499	12.332	.03670	.32540	.17190	.02840	.35460	.09840	.00800	.00050	.00070	1.69300
2.499	14.377	.03500	.39060	.19990	.03050	.42800	.09570	.00800	.00070	.00070	1.92330
2.499	16.416	.03230	.45600	.23250	.03310	.50310	.09410	.00890	.00070	.00070	1.96150
2.499	18.459	.03180	.52040	.27020	.03600	.57820	.09150	.00850	.00070	.00070	1.92590
2.499	20.512	.02930	.58320	.31340	.03850	.65600	.08930	.00850	.00070	.00070	1.88330
2.499	22.550	.02720	.64560	.36200	.04180	.73510	.08680	.00850	.00070	.00070	1.78330
2.499	24.597	.02650	.70840	.41770	.04600	.81780	.08490	.00950	.00050	.00050	1.62500
2.499	GRADIENT	.00042	.02703	.00054	.00145	.02911	.00098	.00000	.00000	.00005	1.85100

(REZ015) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AHLRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 1076.6800 IN. X0
LREF = 474.8000 IN. YREF = .0000 IN. Y0
BREF = 935.6800 IN. ZREF = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 423/ C RUN/L = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CW	CBL	L/D
3.040	.068	.14410	-.03930	.10150	-.02180	-.03920	.10150	.00540	-.08050	.00020	-.36720
3.040	2.090	.14330	.00560	.09800	-.02170	.00920	-.09870	.00500	-.00030	.00020	.06580
3.040	4.116	.14420	.05220	.09980	-.02090	.05920	.09590	.00210	-.00060	.00020	.52240
3.040	6.147	.14260	.10400	.10360	-.02090	.11450	.09190	.00290	-.00050	.00030	1.00370
3.040	8.173	.13970	.15760	.11380	-.02050	.17210	.08940	.00550	-.00010	.00030	1.39530
3.040	10.204	.13850	.21340	.12650	-.02090	.23250	.08670	.00800	-.00030	.00030	1.58560
3.040	12.242	.13900	.27010	.14540	-.02130	.29480	.08480	.00310	-.00020	.00030	1.65720
3.040	14.269	.13460	.32840	.16560	-.02130	.36010	.08150	.00790	-.00050	.00050	1.93170
3.040	16.306	.13460	.38780	.19840	-.02430	.42790	.07960	.00530	-.00030	.00050	1.92590
3.040	18.338	.13070	.44630	.23180	-.02590	.49660	.07820	.00840	-.00050	.00050	1.65670
3.040	20.373	.12440	.50790	.27210	-.02770	.56080	.07750	.00730	-.00050	.00050	1.78450
3.040	22.417	.12570	.56720	.31790	-.02980	.64560	.07610	.00650	-.00040	.00050	1.70260
3.040	24.453	.12590	.62720	.36880	-.03410	.72350	.07500	.00630	-.00050	.00050	1.65380
3.040	25.483	.00002	.65720	.39740	.00022	.78420	.07400	.00082	-.00002	.00000	.25475
	GRADIENT		.02261	-.00040		.02431	-.00138				

RUN NO. 428/ C RUN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CW	CBL	L/D
3.499	-.170	.10220	-.04140	.09410	-.02390	-.04170	.09480	.00450	-.00010	.00010	-.44000
3.499	1.861	.10040	-.00180	.09080	-.02280	.00110	.09080	.00620	-.00010	.00020	-.02800
3.499	3.875	.09980	.04330	.09090	-.02060	.04990	.08770	.00570	.00000	.00020	.48260
3.499	5.898	.09930	.08980	.09080	-.01970	.09900	.08420	.00470	.00000	.00020	.95810
3.499	7.920	.09990	.13860	.10170	-.01910	.15100	.08170	.00190	-.00050	.00020	1.35000
3.499	9.949	.09520	.18950	.11420	-.01860	.20640	.07970	.00800	-.00030	.00030	1.68880
3.499	11.974	.09730	.24290	.13140	-.01870	.26490	.07810	.00260	-.00050	.00020	1.84660
3.499	14.006	.09250	.29860	.15340	-.01940	.32660	.07660	.00860	-.00040	.00020	1.96310
3.499	16.032	.09120	.35330	.18000	-.01980	.38930	.07540	.00790	-.00030	.00020	1.93550
3.499	18.064	.09010	.41070	.21210	-.02040	.45820	.07430	.00700	-.00020	.00020	1.87760
3.499	20.103	.08880	.46790	.24920	-.02130	.52580	.07320	.00590	-.00020	.00000	1.80390
3.499	22.134	.08550	.52660	.29490	-.02300	.59780	.07200	.00570	-.00010	.00000	1.71570
3.499	24.170	.08370	.58470	.34080	-.02310	.67300	.07150	.00860	-.00000	.00000	1.67180
3.499	25.188	.08260	.61420	.36740	-.02450	.71220	.07100	.00890	.00000	.00000	.28813
	GRADIENT		.02103	-.00073		.02268	-.00156				

(RE7018) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0080 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 327 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CB	L/D
.594	.088	2.24440	.05990	.05200	.03150	.05980	.05210	-.03040	.00260	-.00150	-.115240
.597	2.138	2.28050	.03480	.05210	.03200	.03670	.05080	-.03260	.00220	-.00230	.65790
.597	4.199	2.29800	.13050	.05530	.03150	.13420	.04560	-.03230	.00200	-.00280	2.35090
.595	6.276	2.30490	.23190	.06180	.02890	.23730	.03580	-.03090	.00200	-.00310	3.76760
.595	8.369	2.31160	.35910	.07370	.02540	.34620	.02350	-.03400	.00200	-.00350	4.60190
.594	10.474	2.32090	.44850	.09140	.02350	.45770	.00830	-.03220	.00220	-.00500	4.90670
.596	12.626	2.30900	.56480	.12130	.02239	.57760	-.00510	-.02750	.00200	-.00480	4.65460
.597	14.753	2.29150	.65510	.15840	.02140	.67640	-.00400	-.02740	.00180	-.00510	3.89100
.597	16.893	2.29250	.75070	.20580	.01840	.78400	-.00280	-.02990	.00230	-.00590	3.32930
.597	19.000	2.27740	.85050	.27200	.01010	.90050	.00360	-.02640	.00210	-.00720	2.56560
.595	21.092	2.26550	.95440	.37200	.00480	1.02440	.00660	-.02260	.00130	-.00670	2.33250
.595	23.175	2.24300	1.04290	.50490	.00770	1.15470	.00060	-.02440	.00080	-.00470	2.12610
.596	25.217	2.34230	1.07340	.51510	.05820	1.16240	-.00320	-.01110	-.00270	-.00680	2.02300
.597	26.149	.01304	.04632	.00080	-.00000	.04720	-.00158	-.00046	-.00015	-.00032	.85471

RUN NO. 377 0 RN/L = 4.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CB	L/D
.698	.081	2.26230	.06380	.05340	.03520	.06370	.05350	-.03230	.00240	-.00130	-.119410
.698	2.134	2.29360	.03300	.05330	.03500	.03490	.05200	-.03460	.00210	-.00200	.61830
.699	4.209	2.31000	.13630	.05590	.03290	.14000	.04570	-.03730	.00260	-.00260	2.43600
.697	6.295	2.31580	.23790	.06370	.03070	.24390	.03730	-.03310	.00260	-.00320	3.72620
.697	8.411	2.31960	.35550	.07840	.02940	.36310	.02550	-.03160	.00240	-.00320	4.53620
.697	10.528	2.32410	.46590	.10520	.02150	.47730	.01830	-.03430	.00390	-.00270	4.42850
.696	12.671	2.30890	.55370	.14210	.02260	.57140	.01710	-.03150	.00270	-.00360	3.89770
.696	14.812	2.30230	.64970	.19200	.02120	.67720	.01960	-.02780	.00230	-.00530	3.38300
.696	16.964	2.30570	.74720	.25190	.01350	.78820	.02290	-.02790	.00140	-.00570	2.96580
.695	19.083	2.28340	.85000	.31970	.00820	.90760	.02420	-.02680	.00040	-.00640	2.42880
.694	21.189	2.26340	.94570	.38940	.01100	1.02250	.01980	-.02640	.00040	-.00850	2.12550
.694	23.263	2.20410	1.00370	.49320	.02570	1.10100	.01980	-.01980	.00370	-.00910	2.00870
.695	25.304	2.32800	1.00280	.49320	.06720	1.12000	.02270	-.01980	.00080	-.00930	1.89720
.695	26.222	2.37240	.95070	.50110	.09250	1.07430	.02950	-.00840	-.01010	-.01570	.87997
.696		.01155	.04848	.00061	-.00056	.04935	-.00188	-.00121	.00005	-.00031	

GRADIENT

(RE7016) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-03H)

ARC 11-97-87-03H 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0380

RUN NO. 407 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.799	.046	2.27530	.07220	.06690	.04220	.07210	.05690	-.03530	.00240	-.00120	-1.25898
.799	2.130	2.28420	.02940	.05610	.04140	.03140	.05500	-.03540	.00230	-.00200	.52358
.799	4.224	2.30850	.13740	.05040	.03920	.14140	.05010	-.03850	.00180	-.00280	2.27450
.798	6.336	2.30960	.07240	.07240	.03140	.25240	.04400	-.03560	.00220	-.00260	3.48440
.797	8.455	2.31030	.35170	.09530	.02480	.37180	.04100	-.03500	.00290	-.00120	3.79748
.797	10.569	2.31560	.45070	.12430	.02580	.46590	.03950	-.03020	.00250	-.00240	3.62530
.796	12.722	2.30660	.53710	.16170	.02700	.55980	.03840	-.03140	.00120	-.00260	3.32200
.796	14.872	2.30990	.63710	.21470	.02050	.67890	.04400	-.03060	.00070	-.00400	2.96740
.797	17.050	2.32870	.74270	.27750	.01210	.79150	.04700	-.03210	.00290	-.00520	2.67670
.799	19.176	2.31460	.82280	.33990	.01620	.86750	.04620	-.02730	.00590	-.00510	2.44940
.795	21.276	2.30770	.89730	.39780	.02650	.98050	.04520	-.02600	.00870	-.00540	2.25530
.796	23.367	2.31870	.94360	.45860	.05270	1.04820	.04700	-.02600	.01200	-.00660	2.05850
.795	25.373	2.31740	.90720	.49470	.09540	1.03040	.05560	-.02000	.01200	-.02180	1.84490
.795	26.304	2.39020	.88128	.49840	.11000	1.01080	.05640	-.02510	.00890	-.04330	1.76790
	GRADIENT	.00747	.05816	.00084	-.00072	.05183	-.00163	-.00577	-.00014	-.00038	.84792

RUN NO. 477 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.847	.058	2.25540	.07590	.06058	.04830	.07580	.06050	-.03480	.00250	-.00090	-1.25480
.850	2.142	2.29200	.03050	.06060	.04570	.03270	.05940	-.03770	.00210	-.00180	.58300
.846	4.241	2.30630	.14370	.06650	.04120	.14920	.05570	-.03640	.00200	-.00240	2.15870
.845	6.353	2.31230	.25660	.08250	.03150	.26400	.05370	-.03430	.00240	-.00190	3.10670
.847	8.473	2.31270	.35960	.10710	.02670	.37140	.05300	-.03210	.00248	-.00160	3.35620
.847	10.588	2.32410	.44090	.13450	.02980	.45810	.05130	-.03270	.00170	-.00270	3.27550
.847	12.750	2.31400	.53240	.17540	.02868	.55790	.05360	-.03120	.00060	-.00330	3.03550
.847	14.901	2.31980	.62740	.22760	.02060	.66458	.05760	-.02710	.00230	-.00340	2.76900
.848	17.081	2.32040	.72908	.24840	.01740	.78130	.06880	-.02710	.00400	-.00400	2.53470
.849	19.219	2.32040	.81970	.34840	.01740	.88870	.05940	-.02820	.00740	-.00540	2.35290
.846	21.320	2.31050	.88160	.40770	.03030	.96990	.05930	-.02130	.00870	-.00670	2.16230
.844	23.400	2.31760	.94210	.46490	.06270	1.02170	.06440	-.01290	.01280	-.00730	1.96180
.844	25.423	2.33110	.98830	.50360	.09520	1.02750	.06920	-.00170	.01450	-.01470	1.78378
.847	26.384	2.38480	.90050	.52490	.10650	1.04000	.07010	-.01410	-.01070	-.00950	1.71540
	GRADIENT	.01192	.05250	.00144	-.00170	.05355	-.00117	-.00038	-.00012	-.00036	.84628

(RE7018) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-87-87-094)

ARC 11-87-87-094 0A161 ORBITER

REFERENCE DATA

SPEE = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.901	.047	2.26360	.05980	.07170	.04350	.05980	.07170	-.04016	.00390	.00020	.83500
.902	2.152	2.28750	.06290	.07450	.03320	.05570	.07210	.03820	.00380	.00080	.84400
.903	4.260	2.30720	.07150	.08270	.02820	.05720	.06970	.03960	.00280	.00150	2.07440
.904	6.377	2.31210	.07710	.09190	.02348	.05870	.07050	.03540	.00250	.00240	2.71830
.905	8.494	2.31310	.07050	.10190	.02050	.05990	.06880	.03340	.00210	.00180	2.96750
.906	10.626	2.32430	.05720	.11770	.01570	.06180	.07070	.03090	.00090	.00230	2.89860
.907	12.790	2.29500	.05210	.12480	.01010	.06330	.07000	.02400	.00350	.00290	2.80070
.908	14.944	2.32290	.05110	.13710	.00590	.06490	.07240	.02980	.00400	.00400	2.61740
.909	17.129	2.29500	.04390	.14570	.00100	.06690	.07300	.02760	.00590	.00400	2.43390
.910	19.274	2.31660	.03670	.15770	.00110	.06890	.07330	.02190	.00910	.00400	2.25570
.911	21.392	2.32400	.02920	.16750	.00110	.07090	.07590	.02070	.01010	.00500	2.06920
.912	23.479	2.32090	.02190	.17560	.00060	.07260	.07300	.00820	.01750	.00810	1.87408
.913	25.502	2.32810	.01560	.18260	.00020	.07400	.06300	.00580	.00900	.00450	1.70980
.914	26.446	2.38430	.00850	.18430	.00000	.07440	.08550	.03240	.00370	.00350	1.65590
.915	.00560	.00560	.00261	.00353	.05625	.00047	.00012		.00026	.00040	.69062

RUN. NO. 50/ 0 RUN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.951	.071	2.26340	.06060	.10020	.05430	.05040	.10030	.02880	.00090	.00260	.60430
.949	2.173	2.29210	.07230	.10340	.03390	.07620	.10060	.02680	.00080	.00360	.69910
.948	4.286	2.31060	.08350	.11420	.01280	.08270	.09870	.02610	.00050	.00220	1.78240
.949	6.417	2.32440	.09320	.12390	.00130	.08970	.09440	.03550	.00060	.00160	2.42900
.949	8.557	2.32730	.10140	.13390	.00080	.09440	.09440	.03510	.00080	.00080	2.69840
.948	10.698	2.32550	.10810	.14300	.00080	.09440	.09250	.02950	.00100	.00180	2.71290
.949	12.867	2.32900	.11480	.15080	.00080	.09440	.09250	.02300	.00150	.00330	2.61220
.949	15.027	2.32490	.12180	.15860	.00080	.09440	.09250	.01970	.00190	.00410	2.46760
.948	17.228	2.32760	.12860	.16640	.00080	.09440	.09250	.02680	.00390	.00250	2.31950
.946	19.368	2.32900	.13540	.17420	.00080	.09440	.09250	.02050	.00340	.00400	2.17190
.946	21.492	2.33200	.14220	.18200	.00080	.09440	.09250	.01430	.00980	.00580	1.99640
.951	23.555	2.32890	.14900	.18980	.00080	.09440	.09250	.00850	.01460	.00580	1.81280
.951	25.630	2.35080	.15580	.19760	.00080	.09440	.09250	.00200	.01220	.00770	1.66330
.952	26.657	2.41010	.16260	.20540	.00080	.09440	.09250	.00010	.00850	.00610	1.60580
.948	.01120	.01120	.00332	.00332	.00985	.06451	.00035	.00019	.00009	.00010	.56619

GRADIENT

(RE7016) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ-FT. XMRP = 1076.6800 IN. X0
LREF = 479.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 61/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEL	L/D
.979	.050	2.28530	-.06510	.06190	-.06500	.11680	-.03270	.00050	-.00320	-.55770
.979	2.172	2.28850	.06980	.04000	.07430	.11610	-.02920	.00050	-.00420	.58760
.980	4.291	2.29910	.13200	.01690	.21110	.11650	-.02480	.00030	-.00320	1.52940
.979	6.424	2.31030	.32770	-.00220	.34270	.11450	-.02620	.00000	-.00220	2.15360
.979	8.576	2.30840	.44310	-.01460	.46510	.11230	-.02590	.00090	-.00140	2.44570
.979	10.733	2.30880	.55030	-.02410	.58150	.11040	-.02540	.00290	-.00120	2.54050
.981	12.907	2.29380	.66080	-.03150	.70450	.11590	-.02340	-.00020	-.00230	2.44430
.979	14.709	2.34370	.76170	-.03640	.81910	.11270	-.02170	-.00050	-.00280	2.36730
.980	15.065	2.33400	.86050	-.04080	.93610	.11250	-.01680	-.00020	-.00310	2.28240
.979	17.274	2.32120	.94970	-.03910	1.04630	.11150	-.01370	.00820	-.00480	2.09590
.978	19.426	2.31720	.92550	-.03100	1.15300	.10940	-.01150	-.01140	-.00720	1.96420
.979	21.560	2.32100	1.04280	.00060	1.18920	.11400	-.01280	-.01240	-.01220	1.79490
.980	23.642	2.33680	1.02580	.05240	1.19330	.11430	-.00780	-.00910	-.01220	1.65340
.978	25.695	2.40580	1.02450	.06710	1.20440	.11590	-.02060	-.00490	-.00490	1.59140
.979	26.646	.00314	.06294	-.01052	.06311	-.00007	.00186	-.00005	-.00009	.49222

RUN NO. 68/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEL	L/D
1.052	.079	2.28230	-.04610	.05650	-.04590	.13840	-.03700	.00010	-.00460	-.33330
1.053	2.188	2.29200	.09470	.02980	.10030	.14290	-.02470	.00080	-.00430	.64680
1.051	4.308	2.30720	.22550	.00110	.23680	.14130	-.02170	-.00040	-.00380	1.42110
1.049	6.442	2.32200	.34690	-.01650	.35490	.13930	-.02570	-.00110	-.00290	1.93450
1.051	8.601	2.32110	.45540	-.02740	.48090	.13670	-.02590	-.00070	-.00240	2.19740
1.050	10.757	2.32040	.58040	-.03480	.59580	.13530	-.02590	.00010	-.00220	2.31250
1.051	12.953	2.29680	.77530	-.04280	.71540	.13461	-.02520	-.00130	-.00330	2.29080
1.046	15.103	2.34180	.89170	-.04860	.83940	.13481	-.02580	.00150	-.00330	2.22220
1.059	17.331	2.33340	.98400	-.05120	.97610	.13451	-.02580	-.00150	-.00330	2.12710
1.049	19.562	2.33070	.96990	-.07490	1.10150	.13291	-.02060	-.00580	-.00460	2.01610
1.048	21.629	2.33010	.96990	-.04680	1.21210	.13241	-.02140	-.00780	-.00290	1.89150
1.057	23.725	2.34310	1.0010	-.04680	1.25940	.13141	-.02600	-.00800	-.00370	1.75470
1.057	25.785	2.33650	1.12170	-.02490	1.31630	.13161	-.01480	-.01080	-.00620	1.63020
1.052	26.758	2.44540	1.12610	-.00810	1.32710	.13081	-.00550	-.01670	-.00560	1.57650
		.00589	.06421	-.01310	.06684	.00063	.00362	-.00012	.00019	.41477

ORIGINAL PAGE IS
OF POOR QUALITY

TABULATED DATA - 0A181 (ARC 11-97-87-09%)

(REF 7016) (02 AUG 76)

ARC 11-97-87-09% 0A181 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XPRP = 1075.6800 IN. XO
 LREF = 474.8000 IN. YPRP = .0000 IN. YC
 BREF = 935.6800 IN. ZPRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.099	.051	2.27180	-.04380	.05098	-.04370	.13870	-.03360	.00088	-.00450	.31620
1.100	2.177	2.30070	.09350	.02100	.10110	.14120	-.03280	-.00100	-.00420	.65970
1.101	4.302	2.29640	.22710	-.00410	.23840	.14220	-.01750	-.00050	-.00370	1.42170
1.098	6.436	2.30950	.34340	-.01850	.36150	.14140	.02198	.00000	-.00320	1.89550
1.097	8.597	2.31950	.44980	-.02770	.47598	.13880	-.03090	.00000	-.00220	2.15898
1.097	10.752	2.31800	.55110	-.03370	.58640	.13550	-.03220	.00110	-.00230	2.28980
1.098	12.932	2.29930	.66530	-.04370	.71300	.13240	-.03480	.00150	-.00190	2.30480
1.100	15.118	2.34400	.78570	-.05760	.84950	.13230	-.03770	.00130	-.00150	2.24840
1.099	17.340	2.34110	.89240	-.06550	.97640	.13001	-.02920	.00360	-.00070	2.13530
1.100	19.502	2.32930	1.04870	-.07110	1.08870	.13260	-.02820	.00370	-.00170	2.01030
1.101	21.625	2.32240	1.10460	-.06640	1.18020	.13140	-.02900	.00360	-.00300	1.88260
1.099	23.717	2.32930	1.08460	-.03970	1.24180	.13010	-.02230	.00770	-.00410	1.75330
1.098	25.801	2.35680	1.13270	-.03240	1.32100	.12850	-.02340	.00990	-.00280	1.63540
1.099	26.765	2.42250	1.14550	-.03240	1.34790	.12850	-.02230	-.0110	-.00410	1.56710
1.099	GRADIENT	.00555	.06372	-.01294	.05636	.00882	.00741	-.00033	.00019	.40879

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.149	.071	2.27590	-.03000	.04320	-.02990	.14340	-.03460	.00100	-.00390	.20950
1.151	2.175	2.30850	.09930	.04470	.10480	.14450	-.03510	.00000	-.00380	.65980
1.150	4.291	2.31090	.22350	-.00940	.23580	.14380	-.02520	.00010	-.00380	1.38810
1.147	6.426	2.34480	.34140	-.02680	.35950	.14180	.02230	.00020	-.00380	1.89470
1.148	8.591	2.32750	.45440	-.03888	.47750	.13920	-.02570	.00100	-.00380	2.15980
1.147	10.754	2.31430	.55180	-.04230	.58710	.13390	-.02550	.00040	-.00320	2.28910
1.148	12.932	2.29340	.66330	-.05060	.71080	.13190	-.02840	.00080	-.00200	2.30570
1.149	15.107	2.34420	.77420	-.06350	.83810	.13400	-.03190	.00070	-.00040	2.22520
1.148	17.325	2.34460	.87250	-.06890	.95510	.13150	-.02510	.00210	-.00310	2.12630
1.150	19.483	2.32800	.96170	-.07650	1.06670	.13150	-.02460	.00440	-.00340	2.00450
1.149	21.605	2.32420	1.02300	-.08530	1.15090	.12780	-.01460	.00940	-.00340	1.88550
1.152	23.714	2.33850	1.07410	-.05430	1.22850	.12640	-.01420	.00980	-.00390	1.76210
1.148	25.801	2.35380	1.12530	-.04580	1.30810	.12510	-.01950	.01170	-.00130	1.64700
1.149	26.765	2.41950	1.14260	-.04470	1.34100	.12140	-.01940	-.00010	-.00240	1.50410
1.146	GRADIENT	.00829	.05010	-.01246	.06278	.00012	.00199	-.00021	.00002	.37857

(RE7016) (02 AUG 78)

PARAMETRIC DATA

BETA = .080
AILRON = -7.170
ELEVON = .000
BDFLAP = .000

TABULATED DATA - 0A161 (ARC 11-97-87-09+)

ARC 11-97-87-09+ 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 81/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.201	.050	2.29310	-.02300	.14540	.03580	-.02290	.14540	-.03380	.00080	-.00320	-.15850
1.200	2.162	2.29310	.09890	.14930	.01000	.10450	.14550	-.03040	.00020	-.00300	.68220
1.199	4.274	2.29860	.21990	.15110	-.01290	.23130	.14430	-.01990	.00050	-.00330	1.36480
1.197	6.420	2.30700	.33840	.18100	-.03790	.35650	.14210	-.02180	-.00100	-.00390	1.86920
1.198	8.583	2.31680	.44970	.20820	-.04620	.47570	.13880	-.02590	.00000	-.00400	2.15980
1.195	10.748	2.30980	.55500	.28870	-.05210	.59040	.12460	-.02350	.00000	-.00340	2.28970
1.196	12.928	2.29580	.66210	.28870	-.06060	.70990	.13320	-.02300	.00020	-.00180	2.29360
1.196	15.099	2.33360	.76310	.34580	-.06920	.82680	.13500	-.02730	.00020	-.00198	2.20760
1.194	17.320	2.32490	.85970	.41000	-.07620	.94280	.13550	-.02430	.00000	-.00260	2.09630
1.194	19.481	2.32490	.94720	.47720	-.08260	1.05320	.13360	-.02300	.00040	-.00270	1.98740
1.189	21.687	2.30580	1.00840	.53750	-.07090	1.13630	.12820	-.00710	.00060	-.00510	1.87790
1.191	23.709	2.32890	1.06650	.60660	-.06620	1.21930	.12560	-.01560	.01060	-.00300	1.76130
1.188	25.797	2.35140	1.11100	.67270	-.05460	1.29310	.12280	-.02030	.00930	-.00220	1.65150
1.184	28.822	2.35710	1.12900	.70420	-.05100	1.32530	.11900	-.01610	.01010	-.00350	1.60310
1.194	GRADIENT	.00083	.05750	.00372	-.01153	.06018	-.00020	.00329	-.08007	-.00002	.35063

RUN NO. 88/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.297	.056	2.28830	-.01160	.14740	.02500	-.01150	.14740	-.03740	-.00030	-.00230	-.07870
1.299	2.147	2.32100	.09880	.15020	.00330	.10440	.14640	-.03760	-.00130	-.00270	.65770
1.296	4.258	2.32850	.21000	.16020	-.01670	.22140	.14410	-.03220	.00160	-.00320	1.31130
1.296	6.390	2.30360	.32080	.17830	-.03580	.33860	.14150	-.01140	.00000	-.00310	1.79930
1.296	8.552	2.31400	.42490	.20300	-.04420	.45040	.13760	-.01800	.00090	-.00350	2.09300
1.294	10.717	2.31960	.53700	.23910	-.06400	.57210	.13510	-.01860	.00130	-.00200	2.24580
1.294	12.893	2.30060	.64320	.28500	-.07570	.68050	.13430	-.02480	.00290	-.00370	2.25650
1.294	15.061	2.30880	.73780	.33740	-.08300	.80010	.13410	-.03470	.00420	-.00370	2.18670
1.294	17.276	2.39860	.82900	.39730	-.09230	.90960	.13320	-.02810	.00420	-.00230	2.08560
1.294	19.434	2.32980	.90960	.46080	-.09110	1.01110	.13190	-.02610	.00540	-.00200	1.97390
1.293	21.581	2.32000	.98370	.52690	-.09100	1.10860	.12850	-.01240	.00770	-.00230	1.86590
1.293	23.671	2.32560	1.04410	.59290	-.08680	1.19430	.12390	-.00800	.00940	-.00290	1.76100
1.293	25.773	2.35460	1.10400	.66660	-.07840	1.28040	.12190	-.01570	.01230	-.00310	1.65010
1.292	28.812	2.36460	1.12300	.70130	-.07460	1.31860	.11740	-.00820	.01190	-.00230	1.60120
1.293	GRADIENT	.00546	.05273	.00306	-.00992	.05542	-.00073	.00124	-.00031	-.00002	.33071

(RE7018) (02 AUG 75)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09+)

ARC 11-97-87-09+ 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6880 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 379.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.401	.030	2.25650	.00760	.14560	.01580	.00750	.14580	-.06660	.00090	-.00210	.05210
1.401	2.182	2.27530	.09610	.14750	.00390	.10150	.14398	-.01800	.00100	-.00240	.65170
1.400	4.236	2.34330	.20760	.15698	.02100	.21870	.14180	-.04240	-.00230	-.00330	1.28600
1.400	6.354	2.33140	.30550	.17320	.03790	.32280	.13830	-.03390	-.00200	-.00340	1.76370
1.399	8.519	2.31730	.40670	.19750	.05170	.43150	.13510	-.02460	-.00110	-.00420	2.05920
1.399	10.672	2.31590	.50390	.23050	.06440	.53790	.13280	-.02380	-.00120	-.00230	2.16580
1.399	12.843	2.30140	.60570	.27420	.07800	.65150	.12740	-.01660	-.00190	-.00150	2.20840
1.398	15.006	2.32310	.69710	.32140	.09230	.75650	.13000	-.01660	-.00180	-.00180	2.16850
1.398	17.285	2.34430	.78670	.37720	.10640	.86310	.12730	-.02370	-.00400	-.00260	2.08580
1.398	19.399	2.31560	.86900	.43820	.12140	.96520	.12490	-.01430	-.00460	-.00200	1.98280
1.397	21.520	2.29080	.94860	.50140	.13690	1.05900	.12140	-.00300	-.00570	-.00180	1.87610
1.397	23.636	2.33630	1.00410	.56820	.15210	1.14770	.11790	-.02100	-.00910	-.00230	1.76730
1.399	25.743	2.33960	1.06100	.64030	.16760	1.23370	.11590	-.00860	-.01010	-.00300	1.65710
1.399	26.784	2.31700	1.08760	.67690	.18370	1.27590	.11420	-.00820	-.00960	-.00260	1.56670
1.395	GRADIENT	.02066	.04974	.00269	.00875	.05235	-.00095	-.00377	-.00076	-.00029	.31786

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.555	.034	1.52120	-.01320	.14060	.00860	-.01310	.14860	-.03250	.00100	-.00070	.09410
1.555	2.023	1.53170	.07730	.14100	.00750	.08230	.13820	-.02950	.00030	-.00080	.54830
1.555	4.100	1.52240	.17100	.14820	.02250	.18120	.13560	-.02810	-.00090	-.00090	1.16390
1.555	6.172	1.52130	.26410	.16170	.03730	.27990	.13240	-.02540	-.00090	-.00090	1.63290
1.555	8.243	1.52190	.35520	.18440	.05150	.37800	.13150	-.02490	-.00100	-.00100	1.92680
1.555	10.308	1.52240	.43670	.21190	.05940	.46760	.13040	-.02410	-.00120	-.00120	2.06050
1.555	12.355	1.52530	.51780	.24430	.06530	.55810	.12780	-.02500	-.00140	-.00140	2.14000
1.555	14.431	1.52840	.59570	.28260	.07260	.64730	.12520	-.02560	-.00150	-.00150	2.10820
1.555	16.574	1.53150	.67720	.32940	.07980	.74310	.12260	-.02530	-.00170	-.00170	2.05580
1.555	18.669	1.53340	.75620	.38070	.08490	.83820	.11870	-.01920	-.00180	-.00180	1.90470
1.555	20.700	1.54050	.83540	.43860	.08980	.93650	.11500	-.01890	-.00190	-.00190	1.80290
1.555	22.789	1.54370	.90760	.50340	.09230	1.03180	.11260	-.01450	-.00220	-.00220	1.69970
1.555	24.854	1.54930	.96940	.57040	.09110	1.11940	.11010	-.01280	-.00260	-.00260	1.59180
1.555	26.882	1.55150	1.00300	.60720	.09040	1.16750	.10830	-.01100	-.00330	-.00330	1.48140
1.555	GRADIENT	.00026	.04530	.00188	.00762	.04779	-.00123	-.00108	-.00032	-.00005	.30682

(RE70187) (02 AUG 75)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALFARON = .000 BDFLAP = -7.170

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 0A181 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 3277 0 R/V/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	.019	1.70850	.01798	.00200	.01798	.13940	.03350	.00070	.00070	1.3220
1.750	1.964	1.69880	.06450	.01090	.06910	.13260	.03090	.00060	.00060	1.7780
1.750	4.028	1.70770	.14760	.02300	.15710	.12950	.02930	.00090	.00090	1.05290
1.750	6.082	1.70330	.23160	.03480	.24640	.12730	.02660	.00070	.00070	1.51550
1.750	8.114	1.70000	.31200	.04540	.33310	.12610	.02320	.00070	.00070	1.81600
1.750	10.153	1.70590	.38700	.05230	.41560	.12520	.02530	.00090	.00090	1.97010
1.750	12.175	1.70820	.46450	.05780	.50160	.12240	.02570	.00100	.00100	2.06020
1.750	14.175	1.71230	.54250	.06480	.57220	.11510	.02210	.00120	.00120	2.04240
1.750	16.161	1.71570	.62150	.06850	.63960	.11060	.01940	.00110	.00110	1.98420
1.750	18.146	1.71980	.70070	.07300	.71300	.10720	.01730	.00070	.00070	1.90850
1.750	20.120	1.72350	.78070	.07730	.79410	.10480	.01630	.00120	.00120	1.81070
1.750	22.090	1.72690	.85950	.08090	.84190	.10160	.01340	.00090	.00090	1.71540
1.750	24.062	1.73320	.93190	.08220	.91310	.10050	.01250	.00110	.00110	1.58740
1.750	25.047	.00030	.04088	.00857	.04323	.00146	.00105	.00032	.00005	.29269

RUN NO. 3347 0 R/V/L = 3.05 GRADIENT INTERVAL = -5.00/ 4.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.997	.014	1.20880	.03520	.01320	.03520	.12740	.02740	.00090	.00070	2.7590
1.997	2.037	1.20840	.10420	.02140	.10870	.12430	.02600	.00160	.00060	81320
1.997	4.103	1.20720	.17600	.02890	.18520	.12140	.02370	.00050	.00050	1.30990
1.997	6.146	1.20710	.24420	.03510	.25840	.11860	.02240	.00050	.00050	1.67770
1.997	8.228	1.20850	.31560	.03850	.33580	.11740	.02280	.00070	.00070	1.92130
1.997	10.257	1.20960	.38580	.04170	.41280	.11400	.02200	.00090	.00090	2.07270
1.997	12.322	1.21140	.46040	.04510	.49570	.11170	.02190	.00100	.00100	2.14260
1.997	14.395	1.21420	.53320	.04870	.57820	.10810	.02040	.00100	.00100	2.14640
1.997	16.541	1.22160	.60590	.05210	.66320	.10490	.01730	.00110	.00110	2.09420
1.997	18.628	1.40080	.67620	.05510	.74800	.10220	.01520	.00090	.00090	2.01400
1.997	20.647	1.40360	.74520	.05810	.83380	.09930	.01240	.00070	.00080	1.92600
1.997	22.734	1.41030	.81540	.06280	.92430	.09590	.01160	.00050	.00050	1.82970
1.997	24.790	1.41460	.88750	.06560	1.01360	.09230	.00990	.00070	.00130	1.72260
1.997	25.025	1.41520	.88720	.06600	1.02220	.09210	.00930	.00070	.00130	1.72000
1.997			.03444	.00384	.03668	.00147	.00029	.00005	.00005	.25287

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0080 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 376.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.249	1.102	1.07220	.02730	.12140	.01190	.02750	.12130	.02350	.00050	.00060	.25520
2.249	1.873	1.07130	.03940	.12040	.01740	.03930	.11920	.02160	.00010	.00030	.29400
2.249	3.927	1.07630	.09810	.12350	.02290	.10630	.11650	.01960	.00050	.00050	.79468
2.249	5.985	1.07910	.16260	.13060	.02770	.17530	.11290	.01778	.00040	.00040	1.24490
2.249	8.039	1.06980	.22570	.14340	.02970	.24360	.11040	.01730	.00100	.00050	1.57430
2.249	10.081	1.07160	.29120	.16220	.03160	.31510	.10860	.01790	.00070	.00070	1.79600
2.249	12.128	1.09060	.35940	.18530	.03420	.39030	.10560	.01610	.00140	.00090	1.94020
2.249	14.207	1.08580	.42870	.21440	.03760	.46820	.10260	.01540	.00140	.00110	1.99980
2.249	16.335	1.07460	.49550	.24980	.04100	.54570	.10040	.01340	.00180	.00110	1.98350
2.249	20.429	1.08210	.62590	.33400	.04610	.70310	.08450	.01100	.00378	.00100	1.87380
2.249	22.501	1.08600	.69090	.38550	.04970	.78580	.09170	.01020	.00450	.00100	1.79250
2.249	24.568	1.10270	.75750	.44400	.05350	.87350	.08900	.00840	.00520	.00100	1.70580
2.249	25.577	1.09100	.78870	.47450	.05570	.91630	.08750	.00720	.00510	.00090	1.68250
2.249	GRADIENT	.00103	.03112	.00053	.00873	.03320	.00119	.00099	.00025	.00002	.25303

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.499	1.116	2.10010	.02710	.11580	.01730	.02690	.11510	.02410	.00100	.00040	.23570
2.499	2.152	2.08860	.02740	.11380	.01980	.03160	.11270	.02140	.00160	.00010	.24070
2.499	4.186	2.08010	.08430	.11680	.02680	.09250	.10990	.02120	.00230	.00000	.72660
2.499	6.220	2.07150	.14168	.12200	.02490	.15400	.10596	.01920	.00230	.00010	1.16070
2.499	8.256	2.06830	.20290	.13350	.02590	.22000	.10300	.01800	.00310	.00010	1.51940
2.499	10.295	2.05110	.26960	.15070	.02740	.28730	.10100	.01970	.00370	.00070	1.75620
2.499	14.379	2.05830	.33050	.17370	.02950	.35000	.09910	.01930	.00420	.00100	1.90240
2.499	16.426	2.05650	.39740	.20170	.03230	.43110	.09670	.01760	.00420	.00110	1.97000
2.499	18.469	2.05880	.46440	.23560	.03490	.51210	.09470	.01480	.00510	.00100	1.97090
2.499	20.508	2.05760	.52820	.27330	.03740	.58750	.09190	.01390	.00600	.00110	1.93230
2.499	22.558	2.05200	.59190	.31670	.04050	.66540	.08920	.01240	.00660	.00130	1.88930
2.499	24.606	2.05500	.65520	.36690	.04380	.74580	.08750	.01260	.00710	.00120	1.78550
2.499	25.626	2.07120	.71610	.42190	.04758	.82680	.08540	.01270	.00740	.00120	1.69750
2.499	GRADIENT	.00491	.02737	.00025	.00835	.02934	.00399	.00220	.00780	.00010	1.65420
							.00133	.00071	.00032		.23647

PARAMETRIC DATA

BETA = .003
ALLRON = -7.170
2.000 ELEVON =
.000 BDFLAP =

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8900 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 422/ 0 RUN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	.086	2.2280	-.0380	.10210	-.02300	-.03810	.10210	-.02780	-.00058	-.00040	-.37450
3.498	2.109	2.2190	.00600	.09950	-.02200	.00970	.09930	-.02880	-.00100	-.00060	.06020
3.497	4.132	2.2080	.05470	.09940	-.02170	.06170	.09520	-.02468	-.00140	-.00070	.55050
3.496	6.184	2.2020	.10670	.10340	-.02140	.11720	.09130	-.02700	-.00200	-.00100	1.03220
3.495	8.197	2.1940	.15990	.11300	-.02140	.17440	.08910	-.02330	-.00210	-.00120	1.41510
3.494	10.228	2.1860	.21440	.12770	-.02130	.23350	.08760	-.02250	-.00250	-.00150	1.67870
3.493	12.234	2.1840	.27270	.14740	-.02230	.29780	.08610	-.02150	-.00330	-.00220	1.85080
3.492	14.235	2.1840	.33370	.17230	-.02600	.36590	.08480	-.01810	-.00370	-.00240	1.95580
3.491	16.236	2.1830	.39420	.20160	-.02890	.43500	.08260	-.01850	-.00400	-.00260	1.93330
3.490	18.236	2.1830	.45820	.23700	-.02970	.50500	.08060	-.01870	-.00480	-.00230	1.86930
3.489	20.242	2.1880	.52520	.27570	-.03280	.57900	.07880	-.01780	-.00580	-.00210	1.78590
3.488	22.242	2.1930	.59530	.32210	-.03840	.65470	.07810	-.01780	-.00650	-.00190	1.70220
3.487	24.248	2.1990	.66810	.37250	-.04330	.73140	.07630	-.01590	-.00650	-.00200	1.65420
3.486	25.497	2.2020	.74140	.42980	-.04560	.80910	.07620	-.01460	-.00650	-.00200	1.65420
3.485	26.999	2.2090	.82290	.49060	-.04530	.88790	.07610	-.01370	-.00600	-.00200	1.65420

RUN NO. 429/ 0 RUN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.499	1.172	2.20340	-.04140	.09520	-.02420	-.04160	.09510	-.02690	-.00050	-.00010	-.43430
3.498	1.658	2.24250	.00040	.09130	-.02150	.00340	.09130	-.02850	-.00070	-.00050	.00470
3.497	3.873	2.23110	.04340	.09010	-.02150	.04940	.08700	-.02350	-.00080	-.00070	.48200
3.496	5.904	2.22310	.09090	.09090	-.02070	.10610	.08370	-.02170	-.00110	-.00100	.92800
3.495	7.920	2.21680	.13970	.10180	-.01970	.15240	.08160	-.02170	-.00150	-.00140	1.37240
3.494	9.947	2.21270	.19330	.11450	-.01890	.20720	.07990	-.02160	-.00160	-.00190	1.66220
3.493	11.976	2.20800	.24430	.12330	-.01890	.26840	.07870	-.02160	-.00170	-.00220	1.84690
3.492	14.010	2.20310	.30200	.13530	-.01920	.33060	.07760	-.02090	-.00230	-.00260	1.94420
3.491	16.043	2.20590	.35910	.14820	-.02040	.39350	.07620	-.02000	-.00260	-.00260	1.96730
3.490	18.075	2.20730	.41740	.16250	-.02090	.45650	.07510	-.01700	-.00290	-.00300	1.93980
3.489	20.108	2.21360	.47780	.17800	-.02180	.52000	.07400	-.02230	-.00400	-.00300	1.87550
3.488	22.139	2.21690	.53340	.19530	-.02320	.58370	.07340	-.02300	-.00500	-.00310	1.80330
3.487	24.178	2.22300	.59200	.21330	-.02510	.64810	.07250	-.02460	-.00590	-.00300	1.71460
3.486	25.196	2.22900	.65280	.23130	-.02660	.71960	.07170	-.02600	-.00590	-.00310	1.67170
3.485	26.200	2.23500	.71500	.25000	-.02800	.79600	.07100	-.02700	-.00600	-.00310	1.62853

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

(REZ017) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.595	.110	5.34410	.05490	.04960	.02650	.05480	.04970	-.08710	.00680	-.00300	-1.10730
.596	2.152	5.35670	.03850	.04950	.02650	.04030	.04800	-.08780	.00670	-.00450	2.7720
.596	4.218	5.37430	.13410	.05310	.02580	.13760	.04310	-.08660	.00650	-.00550	2.52510
.596	6.303	5.37840	.23808	.06420	.02350	.24330	.03470	-.08470	.00610	-.00640	3.68810
.596	8.393	5.38380	.34010	.07350	.02170	.34720	.02260	-.08530	.00580	-.00860	4.55550
.596	10.516	5.37830	.45260	.09100	.01990	.46160	.00690	-.08540	.00600	-.01130	4.97250
.596	12.837	5.37290	.56470	.11960	.01730	.57720	-.00680	-.08250	.00630	-.01150	4.72180
.596	14.748	5.36440	.66450	.16470	.01370	.68570	-.00530	-.08030	.00580	-.01150	3.92280
.596	16.852	5.35680	.75850	.22350	.01270	.79070	-.00500	-.08240	.00500	-.01120	3.39430
.596	18.967	5.37110	.86100	.29260	.00580	.90930	-.00310	-.08560	.00650	-.01120	2.94240
.596	21.059	5.37930	.95810	.36530	.00010	1.02530	-.00340	-.09150	.00840	-.00970	2.62270
.596	23.147	5.38900	1.06670	.44750	-.00290	1.15628	-.00767	-.09420	.00860	-.00820	2.36830
.596	25.192	5.40730	1.11010	.51110	.01280	1.28210	-.01000	-.09620	.00880	-.00580	2.17190
.596	26.088	5.43040	1.04980	.51310	.04990	1.16860	-.00097	-.07470	.00220	-.01810	2.04620
.596	GRADIENT	.00807	-.00017	.00085	-.00017	.04683	-.00161	.00012	-.08010	-.00061	-.88404

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.697	.100	5.35310	-.05830	.05120	.02960	-.05820	.05130	-.09180	.00680	-.00280	-1.13800
.698	2.144	5.33820	.03790	.05100	.02970	.03980	.04950	-.08750	.00710	-.00430	2.74350
.698	4.233	5.38400	.13820	.05480	.02860	.14280	.04440	-.09080	.00670	-.00550	2.54800
.697	6.329	5.38540	.24580	.06360	.02500	.25130	.03610	-.08730	.00600	-.00650	3.66410
.699	8.437	5.39730	.35820	.07780	.02200	.36370	.02470	-.08540	.00630	-.00830	4.58060
.698	10.568	5.38130	.46728	.10240	.01840	.47810	.01500	-.08850	.00690	-.00850	4.55130
.696	12.684	5.37670	.58200	.14280	.01610	.57960	.01590	-.08570	.00630	-.01080	3.93580
.697	14.798	5.38470	.69590	.19110	.01410	.68300	.01720	-.08730	.00590	-.00880	3.43560
.697	16.936	5.38490	.75990	.25030	.01070	.79380	.01850	-.08590	.00530	-.00840	3.03270
.697	19.067	5.39510	.86310	.31780	.00820	.91950	.01850	-.08980	.00380	-.00860	2.71540
.696	21.174	5.48830	.95340	.38660	.00620	1.02870	.01610	-.09040	.00330	-.00670	2.46500
.696	23.284	5.41958	1.03560	.45850	.01760	1.13250	.01220	-.08710	-.00478	-.00990	2.25860
.696	25.273	5.41950	1.00120	.47570	.06370	1.11700	.02080	-.06300	-.01170	-.02380	2.01970
.696	26.158	5.45400	.98100	.50270	.08070	1.08390	.02710	-.05800	-.01110	-.03060	1.91380
.696	GRADIENT	.00753	-.00780	.00067	-.00024	.04884	-.00167	.00024	-.00065	-.00065	-.88997

(RE7017) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-87-87-094)

ARC 11-87-87-094 0A161 ORBITTER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.5000 IN. YMRP = .0000 IN. YO
BREF = 939.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

GRADIENT INTERVAL = -5.00/ 5.00

CLM = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

CL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

CL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

CL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.800	.077	5.35340	.06770	.03700	.05770	.05520	.09220	.00790	.00260	-1.22860
.801	2.151	5.38270	.03300	.03510	.03508	.05350	.09090	.00910	.00460	.60260
.799	4.249	5.39300	.14090	.03480	.03508	.04850	.08940	.00790	.00560	2.38550
.793	6.363	5.40020	.25750	.07240	.26390	.04350	.09160	.00670	.00560	3.55360
.797	8.478	5.40290	.38620	.09430	.37610	.03930	.08130	.00710	.00520	3.88300
.798	10.608	5.39490	.54720	.12560	.47160	.03930	.08900	.00670	.00700	3.63140
.801	12.741	5.39810	.63620	.19420	.57020	.04060	.09050	.00360	.00840	3.30830
.798	14.853	5.40260	.73810	.21260	.66940	.04230	.08930	.00280	.00740	2.98250
.799	16.998	5.42250	.82570	.33200	.88900	.04350	.08730	.00280	.00720	2.72220
.799	19.138	5.43560	.90250	.49800	.98530	.04300	.08740	.01160	.00880	2.48590
.799	21.246	5.44370	.94590	.69000	1.04830	.04440	.06700	.01850	.01460	2.07240
.799	23.331	5.44830	.92520	.91840	1.09108	.05250	.06290	.01910	.02740	1.66280
.795	25.341	5.45940	.92520	.51560	1.05780	.05290	.06300	.01890	.02870	1.78440
.797	26.266	5.50940	.05001	.00096	.06097	.00161	.00667	.00000	.00072	.86548

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.851	.077	5.37230	.07170	.04240	.07160	.05980	.09640	.00860	.00230	-1.21380
.852	2.157	5.37810	.03350	.04030	.03570	.05730	.09730	.00840	.00460	.57290
.850	4.265	5.40020	.14750	.05610	.15200	.08490	.09690	.00830	.00500	2.23200
.849	6.384	5.39770	.26269	.08310	.27020	.05340	.09650	.00730	.00470	3.15940
.848	8.502	5.40220	.36450	.10630	.37620	.05130	.08820	.00640	.00570	3.42780
.845	10.633	5.39680	.44900	.13570	.46550	.05170	.08650	.00470	.00732	3.38970
.845	12.758	5.40220	.53880	.17440	.56460	.05110	.08900	.00130	.00820	3.00800
.845	14.892	5.43490	.63280	.22320	.68750	.05350	.08740	.00670	.00590	2.58190
.848	17.023	5.44020	.72660	.28140	.77728	.05470	.08640	.01170	.00780	2.35770
.845	19.177	5.44950	.81560	.34170	.88300	.05460	.08290	.01610	.01120	1.97420
.848	21.307	5.45790	.88870	.40280	.97520	.05460	.08290	.02470	.01930	1.79590
.845	23.369	5.45090	.91360	.46280	1.02820	.06240	.08530	.02380	.02350	1.71900
.844	25.400	5.45340	.90320	.50690	1.03160	.06680	.08680	.02530	.02140	.82260
.847	26.333	5.45620	.91100	.53880	1.05160	.07890	.0807	.00007	.00064	
.851	26.333	5.45620	.91100	.53880	1.05160	.07890	.0807	.00007	.00064	

(RE7017) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 04181 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITTER

REFERENCE DATA

SREF = 2690.0000 50. FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8800 IN. YMRP = .0000 IN. YO
BREF = 938.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.889	.077	5.36790	-.06090	.03790	-.06080	.07850	-.10498	.00970	.00030	-.86520
.901	2.173	5.39690	.05980	.02870	.06260	.07100	-.10010	.01020	-.00200	.81640
.898	4.282	5.40589	.17370	.02140	.07940	.06960	-.10050	.00910	-.00310	2.09650
.900	6.405	5.41170	.27760	.01870	.08710	.06940	-.09970	.00720	-.00540	2.74780
.898	8.522	5.41360	.37300	.01670	.09730	.06800	-.09870	.00580	-.00740	2.99150
.897	10.658	5.40500	.45570	.01500	.10840	.06760	-.09880	.00330	-.00790	2.94830
.897	12.791	5.39880	.55160	.01300	.12070	.06610	-.09900	.00050	-.00730	2.81360
.896	14.929	5.43810	.64340	.00950	.13400	.06440	-.09880	.00390	-.00590	2.85830
.896	17.082	5.44940	.75370	.00790	.14720	.06110	-.09730	.01040	-.00590	2.46040
.898	19.234	5.45250	.83300	.00880	.16070	.07010	-.07370	.01470	-.00640	2.28320
.894	21.349	5.45240	.89010	.00990	.17270	.06900	-.07050	.01790	-.01200	2.10960
.895	23.409	5.44410	.91480	.00960	.18250	.07820	-.03980	.03140	-.02160	1.90390
.896	25.482	5.51500	.92130	.10720	.10520	.08210	-.03450	.01690	-.01410	1.73600
.898	26.405	.00903	.05578	-.00392	.05712	.08230	-.08170	.01200	-.01200	1.67710
						.00021	.00105	-.00014	-.00081	.76418

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.949	.083	5.36950	-.06230	.05150	-.06220	.09990	-.08800	.00680	-.00520	-.82710
.961	2.188	5.39920	.06930	.03360	.07320	.09950	-.09190	.00610	-.00720	.67860
.960	4.307	5.39450	.19950	.01420	.20760	.09980	-.08100	.00680	-.00590	1.75080
.948	6.440	5.39850	.31810	.00140	.33090	.09940	-.08430	.00840	-.00410	2.44070
.948	8.574	5.41640	.42660	-.00630	.44950	.09320	-.08930	.00320	-.00580	2.69120
.950	10.730	5.40350	.52740	-.01480	.53460	.09360	-.08000	.00150	-.00880	2.70250
.949	12.882	5.37590	.61990	-.02310	.63650	.09080	-.06030	.00460	-.00940	2.50150
.948	15.016	5.40030	.72690	-.02540	.77740	.09190	-.05590	.00770	-.01040	2.34810
.948	17.167	5.41650	.82210	-.02440	.88880	.09440	-.04910	.01260	-.01290	2.17740
.952	19.342	5.42230	.92370	-.00190	1.01210	.09410	-.04970	.01260	-.01240	2.00900
.949	21.455	5.43630	.96590	.04300	1.07480	.09410	-.04130	.01790	-.01880	1.81920
.948	23.531	5.45090	.97090	.06140	1.10320	.10170	-.04100	.02420	-.01620	1.68530
.951	25.574	5.45420	.98050	.08300	1.13560	.10160	-.04100	.02420	-.01160	1.62820
.947	26.464	5.52288	.95360	.08300	1.12620	.10000	-.07120	.02020	-.00016	.55815
			.00377	-.00883	.06387	.00319	.02119	-.00019		

GRADIENT

(RE7017) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEXON = .000
AILRON = .000 BOFLAP = -7.17%

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0008 IN. Y0
BREF = 985.6800 IN. ZMRP = 375.0080 IN. Z0
SCALE = .0360

RUN NO. 60/ 0 RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.981	.085	5.35640	-.09940	.11670	.05550	-.05920	.11680	-.08660	.00400	-.08660	-.50910
.980	2.188	5.35730	.07200	.11920	.03570	.07650	.11640	-.07760	.00440	-.09810	.60390
.981	4.317	5.40160	.20250	.13320	.01500	.21190	.11750	-.07630	.00360	-.00760	1.52070
.979	6.455	5.39930	.32730	.15150	-.00190	.34280	.11370	-.07750	.00390	-.00590	2.15070
.981	8.602	5.40130	.44040	.18210	-.01160	.46270	.11420	-.08000	.00480	-.00500	2.41880
.980	10.765	5.38490	.54720	.21730	-.02050	.57820	.11130	-.07920	.00340	-.06710	2.51830
.977	12.893	5.38210	.65270	.25670	-.03150	.69360	.10460	-.07310	.00400	-.00870	2.54200
.977	15.055	5.39370	.75890	.31370	-.03640	.81440	.10300	-.06860	.00330	-.00890	2.41950
.980	17.218	5.43530	.85750	.37940	-.03830	.93140	.10860	-.05920	.00140	-.00930	2.26030
.979	19.381	5.43750	.95190	.45260	-.04390	1.04820	.11110	-.05490	.01680	-.01140	2.10310
.979	21.523	5.44630	1.02820	.52040	-.03550	1.14750	.10690	-.05700	.02160	-.01640	1.97590
.980	23.604	5.44600	1.04020	.57520	.00480	1.18360	.11060	-.04510	-.02160	-.02160	1.80840
.980	25.650	5.46550	1.03980	.62260	.00780	1.20590	.11160	-.04270	-.02710	-.01920	1.65840
.977	26.559	5.50280	1.01940	.62770	.05780	1.19250	.10570	-.05230	-.02080	-.01310	1.52400
GRADIENT		.01057	.06189	.00390	-.00957	.05435	.00017	.00193	-.00010	-.00024	.47555

RUN NO. 69/ 0 RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.050	.095	5.38510	-.04260	.13850	.05050	-.04240	.13850	-.08660	.00480	-.00980	-.30730
1.052	2.205	5.41300	.09480	.14390	.02370	.10330	.14010	-.09090	.00290	-.01070	.65900
1.050	4.330	5.39760	.22700	.15710	-.00090	.23820	.13960	-.07230	.00260	-.00970	1.44460
1.048	6.470	5.40530	.34740	.17770	-.01710	.36620	.13740	-.07330	.00100	-.00820	1.95500
1.052	8.620	5.40920	.45390	.20930	-.02720	.48020	.13690	-.07880	.00160	-.00760	2.16860
1.050	10.785	5.38100	.55020	.24270	-.03410	.59580	.13360	-.07230	.00140	-.00970	2.30830
1.048	12.932	5.38580	.67110	.28860	-.04220	.71850	.13050	-.07350	.00040	-.00910	2.33010
1.050	15.093	5.40420	.77160	.34380	-.04550	.83450	.13100	-.07420	.00160	-.00940	2.24460
1.048	17.252	5.43850	.85970	.40570	-.04810	.95080	.12980	-.07250	.00500	-.01130	2.14110
1.049	19.426	5.45040	.97020	.48120	-.05880	1.07500	.13120	-.06820	.00970	-.01110	2.01600
1.051	21.574	5.45810	1.05510	.55700	-.06280	1.18660	.13000	-.06310	.01440	-.01020	1.89440
1.051	23.671	5.47480	1.11850	.63070	-.05790	1.27770	.12860	-.07250	.01590	-.00890	1.77370
1.050	25.729	5.47150	1.10900	.68050	-.01390	1.29440	.13160	-.04150	-.02710	-.00930	1.62960
1.048	26.650	5.53270	.10810	.69680	-.00480	1.30290	.12570	-.04560	-.02600	-.01930	1.59040
GRADIENT		.00294	.06366	.00439	-.01216	.06626	.00056	.00738	-.00052	.00002	.41371

(RE7017) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000
ELEVON = .000
BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 70# 0 RVAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.108	.085	5.35020	-.03790	.04580	-.03770	.14080	-.09150	.00560	-.00860	-.25910
1.100	2.195	5.39510	.10150	.04550	.10780	.14220	-.07850	.00470	-.00950	.69440
1.098	4.329	5.39820	.23200	-.00720	.24350	.14380	-.07320	.00350	-.00930	1.43440
1.096	6.478	5.39650	.34730	-.02140	.36580	.14590	-.06810	.00230	-.00810	1.89510
1.094	8.622	5.40440	.45340	-.03000	.48000	.14900	-.07480	.00220	-.00770	2.14670
1.092	10.790	5.40820	.55390	-.03350	.58930	.15350	-.07540	.00300	-.00880	2.27000
1.090	12.940	5.40530	.66400	-.04300	.71150	.15920	-.07440	.00200	-.00930	2.30420
1.088	15.103	5.44490	.77330	-.05230	.83610	.16200	-.07790	.00380	-.01030	2.25120
1.086	17.264	5.44490	.87190	-.05870	.96340	.16800	-.07960	-.00390	-.00640	2.14380
1.084	19.442	5.45590	.97050	-.06550	1.07490	.17220	-.07990	.00910	-.00720	2.02200
1.082	21.576	5.46320	1.04240	-.06800	1.17220	.17800	-.06660	-.01390	-.00840	1.88890
1.080	23.679	5.47550	1.10690	-.06430	1.26460	.18110	-.06990	.01640	-.00570	1.77020
1.078	25.753	5.48880	1.13250	-.04140	1.31790	.12550	-.06380	.02140	-.01020	1.65160
1.076	26.713	5.46910	1.13940	-.03040	1.33910	.12640	-.06000	-.02408	-.01780	1.59398
1.098	GRADIENT	.01130	.06351	-.01230	.06628	.00071	.00196	-.00050	-.00807	-.40143

RUN NO. 79# 0 RVAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.149	.088	5.37900	-.03140	.04030	-.03120	.14200	-.08470	.00500	-.00830	-.22120
1.147	2.192	5.39500	.09790	.04230	.10340	.14230	-.07710	.00420	-.00840	.69980
1.145	4.314	5.41620	.22270	-.01170	.23410	.14220	-.07990	.00170	-.00830	1.38710
1.143	6.459	5.40910	.34320	-.02850	.36130	.14048	-.07020	.00010	-.00820	1.90500
1.141	8.620	5.41680	.45580	-.03990	.48210	.13920	-.07270	.00090	-.00920	2.17190
1.139	10.792	5.39460	.55770	-.04300	.59340	.13470	-.06500	.00050	-.00950	2.29130
1.137	12.940	5.39340	.66170	-.05110	.70910	.13150	-.07236	.00040	-.00730	2.30620
1.135	15.103	5.41930	.77100	-.06130	.83360	.12960	-.07680	.00310	-.00460	2.25330
1.133	17.263	5.44340	.86520	-.06840	.94590	.12850	-.07010	.00590	-.00530	2.14420
1.131	19.440	5.45820	.95350	-.07370	1.08290	.12800	-.08518	.01120	-.00500	2.02010
1.129	21.583	5.45790	1.03780	-.07670	1.16550	.12750	-.08020	.01730	-.00630	1.89480
1.127	23.683	5.47020	1.10030	-.07200	1.25800	.12440	-.05830	.01850	-.00340	1.77920
1.125	25.770	5.49760	1.13250	-.05460	1.31580	.12060	-.06500	.02330	-.00620	1.66370
1.123	26.789	5.49670	1.14510	-.04290	1.34300	.11940	-.06598	.02480	-.08720	1.60860
1.149	GRADIENT	.00880	.06013	-.01230	.06278	.00015	.00113	-.00078	.00000	.38290

(RET017) (02 AUG 76)

PARAMETRIC DATA

 5.000 ELEVON = .000
 .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09#)

ARC 11-97-87-09# 0A161 ORBITER

REFERENCE DATA

 SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 479.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

RUN NO. 80/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.198	.084	5.39570	-.02200	.14530	.03410	-.02180	.14540	-.89150	.00450	-.00720	-.15140
1.199	2.183	5.40760	.09880	.14440	.08820	.10440	.14440	-.08190	.00350	-.00740	.66680
1.197	4.303	5.41060	.22860	.16000	-.01480	.23190	.14300	-.07650	.00240	-.00810	1.37860
1.196	6.449	5.40640	.33730	.18000	-.03230	.36540	.14101	-.06960	.00050	-.00850	1.87370
1.195	8.608	5.41810	.44880	.20890	-.04420	.47500	.13963	-.07420	-.00040	-.01110	2.14870
1.193	10.785	5.43000	.55940	.24540	-.05360	.59520	.13643	-.08860	.00050	-.00670	2.29250
1.192	12.934	5.44050	.66750	.28840	-.06120	.70830	.13233	-.07930	.00240	-.00540	2.22750
1.191	15.094	5.44820	.78460	.34320	-.07240	.82760	.13243	-.07160	.00570	-.00590	2.11690
1.190	17.251	5.45530	.89460	.40670	-.07620	.93580	.12923	-.06820	.01110	-.01020	2.00560
1.190	19.423	5.46240	.94010	.46850	-.07840	1.04240	.12413	-.05670	.01710	-.01340	1.89600
1.192	21.566	5.46340	1.00990	.53280	-.07460	1.13500	.12113	-.05080	.02120	-.01340	1.78800
1.190	23.667	5.46700	1.07050	.60150	-.06990	1.22200	.12113	-.05080	.02390	-.00940	1.67000
1.191	25.763	5.48790	1.12340	.67270	-.06220	1.30420	.11763	-.05630	.02410	-.00990	1.51720
1.196	26.783	5.49270	1.13520	.70260	-.05458	1.33090	.11523	-.05440	-.00050	-.00021	.36257
	GRADIENT	.00353	.05750	.08349	-.04159	.06013	-.00057	.00355			

RUN NO. 89/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.294	.072	5.39690	-.01020	.14800	.02220	-.01000	.14800	-.08040	.00460	-.00540	-.06900
1.298	2.164	5.41390	.10240	.15070	-.00030	.10800	.14670	-.08320	.00240	-.00650	.67980
1.299	4.284	5.42680	.21390	.16100	-.02000	.22330	.14450	-.07980	.00090	-.00760	1.32820
1.297	6.422	5.42450	.32480	.17950	-.03740	.34280	.14210	-.07530	.00130	-.00810	1.80900
1.296	8.577	5.43780	.43140	.20620	-.05080	.45730	.13960	-.06930	.00290	-.00780	2.09200
1.293	10.749	5.43900	.53580	.24160	-.06320	.57250	.13720	-.06930	.00340	-.00770	2.22210
1.293	12.894	5.44740	.64120	.28500	-.07630	.68860	.13470	-.07080	.00340	-.00750	2.24980
1.293	15.053	5.45970	.73840	.33650	-.08460	.80050	.13320	-.07390	.00560	-.00690	2.19430
1.293	17.213	5.46280	.82680	.39580	-.08870	.90630	.13150	-.06440	.00870	-.00670	2.09970
1.292	19.384	5.46970	.90440	.45350	-.08870	1.00360	.12770	-.06270	.01220	-.00560	1.99420
1.298	21.524	5.48090	.97720	.51830	-.08630	1.09920	.12360	-.06270	.01220	-.00740	1.88540
1.298	23.632	5.47180	1.03760	.58690	-.08170	1.18590	.12470	-.04880	.02190	-.00890	1.76600
1.292	25.737	5.49850	1.10200	.66400	-.08020	1.26110	.11960	-.05060	.02470	-.00830	1.65960
1.289	26.786	5.51380	1.12090	.69600	-.07500	1.31420	.11670	-.05940	.02690	-.00880	1.51030
1.296	GRADIENT	.00710	.05321	.08309	-.01002	.05587	-.00083	.00412		-.00052	.33187

(RET017) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
A11RON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 373.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEB	L/D
1.399	.055	5.38550	.00680	.14650	.01310	.00650	.14650	-.08550	.00320	-.00470	-.04620
1.403	2.139	5.42510	.08590	.14610	-.00560	.10140	.14440	-.09450	.00080	-.00610	-.64780
1.399	4.258	5.42150	.20160	.15690	.02360	.21270	.14150	-.07550	.00100	-.00720	1.28458
1.399	6.394	5.44510	.30890	.17440	-.04000	.32450	.13920	-.08650	.00270	-.00770	1.75950
1.397	8.538	5.43940	.40770	.19930	.05370	.43270	.13650	-.07590	.00300	-.00780	2.04580
1.398	10.706	5.41280	.50480	.23180	-.06420	.53900	.13400	-.07250	.00260	-.00640	2.21460
1.397	12.846	5.38900	.60110	.27150	-.07630	.64650	.13100	-.05990	.00250	-.00580	2.17800
1.394	15.003	5.41560	.69360	.31930	-.08350	.75260	.12890	-.06410	.00530	-.00590	2.17230
1.395	17.160	5.44840	.77940	.37270	-.08930	.85470	.12610	-.05970	.00680	-.00550	2.09160
1.395	19.330	5.47640	.86640	.43290	-.09340	.96090	.11700	-.05750	.01300	-.00550	2.00140
1.398	21.470	5.47010	.94010	.49730	-.09360	1.05680	.11870	-.05960	.01770	-.00600	1.89030
1.399	23.586	5.51200	1.00700	.56740	-.08110	1.23050	.11360	-.05050	.01970	-.00550	1.77500
1.397	25.688	5.51260	1.05960	.63570	-.07890	1.36510	.11251	-.06710	.02520	-.00730	1.66680
1.399	26.722	.00830	.04958	.67070	-.00873	.09218	-.00113	.00240	.00052	-.00750	1.61390
	GRADIENT			.00248						-.00059	.31659

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEB	L/D
1.556	.075	4.56680	-.00970	.14120	.00620	.00950	.14120	-.08360	.00260	-.00240	-.06840
1.556	2.086	4.59280	.08960	.14130	-.00330	.08860	.13820	-.08120	.00120	-.00290	-.59140
1.556	4.135	4.56150	.17730	.14900	-.02480	.18760	.13680	-.07460	.00070	-.00310	1.18880
1.556	6.173	4.56570	.26710	.16310	.03860	.28310	.13350	-.07090	.00260	-.00320	1.63700
1.555	8.241	4.56480	.35650	.18440	-.04890	.37920	.13140	-.06920	.00320	-.00370	1.93290
1.556	10.365	4.56330	.44400	.21190	-.05970	.47470	.12900	-.06450	.00380	-.00380	2.09550
1.556	12.346	4.56930	.52140	.24350	-.06320	.56140	.12630	-.06730	.00450	-.00290	2.14160
1.556	14.426	4.57500	.60890	.28290	-.07230	.65250	.12430	-.06740	.00620	-.00280	2.12400
1.556	16.567	4.57740	.67930	.32830	-.07800	.74470	.12090	-.06218	.00850	-.00300	2.06950
1.556	18.863	4.58160	.75900	.37970	-.08340	.84050	.11690	-.05948	.01180	-.00270	1.98890
1.556	20.692	4.58980	.83700	.43690	-.08800	.93730	.11300	-.05360	.01540	-.00300	1.91570
1.556	22.777	4.59530	.90700	.49980	-.08960	1.02960	.10970	-.05080	.01770	-.00350	1.81480
1.556	24.837	4.59860	.96760	.56760	-.08960	1.11630	.10810	-.04490	.02030	-.00400	1.70850
1.556	25.883	4.60260	.99910	.60250	-.08980	1.16180	.10631	-.04450	.02130	-.00420	1.60930
	GRADIENT			.00193		.04851	-.00133	.00222		-.00061	.30957

GRADIENT INTERVAL = -5.00/ 5.00

(RE7017) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBIT PER

REFERENCE DATA

SPEED = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN. NO. 328 / 0 RN/L = 3.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	-0.38	4.74660	-0.01540	.13580	-0.00800	-0.01550	.13580	-0.08490	.00090	-0.0230	-0.11350
1.750	1.946	4.75010	.06720	.13500	-0.01320	.07180	.13270	-0.08170	-0.00800	-0.0250	.49800
1.750	3.984	4.75090	.15250	.14060	-0.02510	.16190	.12970	-0.07620	-0.0230	-0.0240	1.08430
1.750	6.031	4.74900	.23140	.15230	-0.03800	.24610	.12710	-0.07360	-0.0390	-0.0220	1.51970
1.750	8.093	4.74820	.31260	.17070	-0.04340	.33350	.12540	-0.06970	-0.0510	-0.0220	1.83110
1.750	10.151	4.74790	.38730	.19410	-0.04920	.41540	.12280	-0.06550	-0.0500	-0.0270	1.99500
1.750	12.191	4.75080	.46580	.22400	-0.05590	.50250	.12060	-0.06460	-0.0760	-0.0290	2.07990
1.750	14.267	4.75770	.54250	.25930	-0.06060	.53970	.11760	-0.06550	-0.0930	-0.0310	2.09210
1.750	16.405	4.77240	.61500	.29990	-0.06440	.67470	.10510	-0.05420	-0.1170	-0.0320	2.05100
1.750	20.520	4.77730	.76230	.39790	-0.07300	.85350	.10310	-0.05080	-0.1980	-0.0370	1.91580
1.750	22.595	4.78130	.88760	.46600	-0.07530	.93930	.10310	-0.04810	-0.02130	-0.0390	1.71850
1.750	24.634	4.78400	.92690	.52020	-0.07810	1.02940	.09990	-0.04810	-0.02200	-0.0390	1.66850
1.750	25.675	.00107	.04175	.00120	-0.06040	1.07600	.09910	-0.04780	-0.00800	-0.00002	.29778

RUN. NO. 335 / 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.997	.010	4.41310	.03410	.12660	-0.01660	.03410	.12650	-0.08420	.00180	-0.0240	.26910
1.997	2.070	4.41120	.10820	.12790	-0.02560	.11270	.12390	-0.07930	.00030	-0.0220	.84640
1.997	6.158	4.41040	.24670	.14710	-0.03670	.26400	.11950	-0.06990	-0.00340	-0.0190	1.69740
1.997	8.222	4.41140	.31970	.16460	-0.03990	.34000	.11720	-0.06860	-0.00410	-0.0230	1.94270
1.997	10.282	4.41140	.39270	.18780	-0.04300	.42000	.11470	-0.06390	-0.00530	-0.0260	2.09100
1.997	12.323	4.41430	.46640	.21950	-0.04650	.50160	.11110	-0.06270	-0.00700	-0.0290	2.16330
1.997	14.399	4.41570	.53780	.24890	-0.04940	.58280	.10740	-0.05810	-0.00880	-0.0320	2.16050
1.997	16.537	4.41790	.61130	.29020	-0.05390	.66870	.10420	-0.05180	-0.01150	-0.0300	2.10650
1.997	20.645	4.42760	.74950	.38620	-0.06060	.83760	.09720	-0.04740	-0.01540	-0.0350	1.94060
1.997	22.718	4.43420	.81610	.44330	-0.06390	.92420	.09420	-0.04830	-0.01670	-0.0400	1.83880
1.997	24.785	4.43970	.88230	.50810	-0.06710	1.01400	.09140	-0.04840	-0.01750	-0.0460	1.73540
1.997	GRAIDENT	-0.00094	.03552	.00064	-0.00444	.03873	-0.00128	.00241	-0.00074	.00010	.28448

(RE7017) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 0A181 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YG
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0308

RUN NO. 3454 0 RNL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.249	-.096	4.11650	-.02470	.12090	-.01550	-.02498	.12080	-.08160	.00350	-.00248	-.20450
2.249	1.880	4.11420	0.04050	.12010	-.02140	-.04448	.11870	-.07740	.00240	-.00230	.33750
2.249	3.931	4.11260	.10280	.12360	-.02650	.11106	.11630	-.07240	.00890	-.00230	.83180
2.249	5.987	4.11170	.16610	.13150	-.02850	.17890	.11340	-.06740	-.00870	-.00220	1.26350
2.249	10.090	4.11160	.29400	.16410	-.03280	.31820	.11000	-.05040	-.00320	-.00260	1.79188
2.249	12.125	4.11300	.43150	.18810	-.03530	.39450	.10760	-.05850	-.00410	-.00310	1.93050
2.249	14.203	4.11280	.49670	.21710	-.03810	.47150	.10460	-.05370	-.00340	-.00330	1.98780
2.249	16.334	4.11970	.56140	.25150	-.04060	.54740	.10170	-.05060	-.00370	-.00330	1.97470
2.249	18.407	4.12000	.62620	.29040	-.04390	.62440	.09820	-.04640	-.00370	-.00370	1.93340
2.249	20.420	4.12390	.68940	.33460	-.04720	.70360	.09510	-.04360	-.00400	-.00400	1.87160
2.249	22.498	4.12560	.75670	.38630	-.05050	.78840	.09160	-.04390	-.00430	-.00430	1.79500
2.249	24.551	4.13110	.78840	.44330	-.05370	.87250	.08660	-.04420	-.00440	-.00440	1.70580
2.249	25.571	4.13380	.83165	.47410	-.05560	.91580	.08730	-.04420	-.00440	-.00440	1.66380
2.249	GRADIENT	-.00097	.03165	.00068	-.00273	.03374	-.08172	.08229	-.00065	.00002	.25723

RUN NO. 4287 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
2.499	.105	5.18470	-.02478	.11390	-.02830	-.02450	.11400	-.08180	.00440	-.00250	-.21700
2.499	2.137	5.15770	.02950	.11300	-.02560	-.03350	.11180	-.07760	.00060	-.00230	.25830
2.499	4.180	5.13650	.08730	.11570	-.02660	.09550	.10910	-.07530	-.00980	-.00230	.75458
2.499	6.215	5.11680	.14420	.12440	-.02730	.15650	.10500	-.06940	-.00260	-.00230	1.17870
2.499	8.269	5.10230	.20590	.13460	-.02860	.22310	.10360	-.06370	-.00330	-.00280	1.52970
2.499	10.299	5.09320	.26820	.15260	-.02950	.29120	.10228	-.06270	-.00360	-.00360	1.73750
2.499	12.350	5.08760	.33350	.17570	-.03150	.36348	.10030	-.06080	-.00410	-.00410	1.89860
2.499	14.386	5.08510	.39940	.20250	-.03450	.43720	.09690	-.05840	-.00490	-.00490	1.97220
2.499	16.431	5.08630	.46600	.23610	-.03730	.51380	.09460	-.05480	-.00530	-.00530	1.97420
2.499	18.469	5.09260	.53150	.27500	-.04050	.59130	.09240	-.05330	-.00570	-.00570	1.93300
2.499	20.508	5.10370	.59480	.31840	-.04330	.66798	.09010	-.05440	-.00650	-.00650	1.85580
2.499	22.558	5.11660	.65760	.36760	-.04660	.74830	.08720	-.05150	-.00740	-.00740	1.78900
2.499	24.603	5.13520	.71850	.42210	-.04940	.82900	.08460	-.05220	-.00730	-.00730	1.70230
2.499	25.622	5.14500	.78446	.45120	-.05120	.86990	.08320	-.05120	-.00740	-.00740	1.65860
2.499	GRADIENT	-.01183	.02749	.00044	-.00135	.02945	-.00120	.06159	-.00056	.00005	.23844

TABULATED DATA - 04161 (ARC 11-97-87-094)

(RE7017) (02 AUG 75)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.680 IN. XO.
LREF = 474.800 IN. YMRP = .000 IN. YO.
BREF = 938.680 IN. ZMRP = 375.080 IN. ZO.
SCALE = .0300

RUN NO. 4217 0 RVAL = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.490	.103	5.34720	-.02940	.10300	-.02418	-.02920	.10300	-.07970	.00100	-.00160	-.28680
3.490	2.135	5.32150	.01240	.10050	-.02390	.01620	.10000	-.07760	.00010	-.00210	.12370
3.490	4.159	5.29880	.06428	.10100	-.02430	.07130	.09610	-.07290	-.00120	-.00250	.63540
3.490	6.187	5.28020	.11550	.10590	-.02430	.12630	.09280	-.06800	-.09278	-.00290	1.09140
3.490	8.229	5.26440	.17010	.11600	-.02420	.18500	.09050	-.06330	-.00350	-.00350	1.46590
3.490	10.259	5.25370	.22500	.13140	-.02450	.24480	.08930	-.05410	-.00420	-.00450	1.71170
3.490	12.298	5.24790	.28330	.15120	-.02490	.30900	.08730	-.05940	-.00490	-.00530	1.87410
3.490	14.329	5.24680	.34150	.17550	-.02560	.37430	.08550	-.05920	-.00600	-.00590	1.94620
3.490	16.362	5.25010	.40090	.20480	-.02690	.44230	.08360	-.06010	-.00720	-.00710	1.95710
3.490	18.393	5.25370	.46170	.24010	-.02890	.51390	.08210	-.05500	-.00770	-.00740	1.86100
3.490	20.433	5.26350	.52160	.28830	-.03090	.58660	.08050	-.05820	-.00830	-.00740	1.78780
3.490	22.466	5.27650	.58280	.32520	-.03320	.66230	.07860	-.04840	-.01130	-.00750	1.69860
3.490	24.498	5.29440	.63980	.37620	-.03610	.73740	.07710	-.04540	-.01180	-.00760	1.63420
3.490	25.517	5.30360	.66730	.40340	-.03690	.77600	.07660	-.04540	-.01180	-.00760	1.63420
GRADIENT		-.01193	.02307	-.00849	-.00005	.02477	-.00170	.00168	-.00054	-.00022	.28700

RUN NO. 4307 0 RVAL = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
3.490	-.182	5.47470	-.03930	.09510	-.02590	-.03960	.09490	-.07720	.00000	-.00080	-.44350
3.490	1.835	5.45060	.04210	.09180	-.02460	.00500	.09160	-.07830	-.00090	-.00170	.02260
3.490	3.868	5.42690	.04790	.09080	-.02390	.05390	.08730	-.07280	-.00470	-.00230	.52770
3.490	5.892	5.40760	.09630	.09470	-.02370	.10560	.08430	-.06760	-.00260	-.00290	1.01710
3.490	7.919	5.39100	.14210	.10270	-.02260	.15490	.08210	-.06200	-.00270	-.00400	1.38390
3.490	11.986	5.37680	.24550	.13290	-.02100	.26770	.07900	-.06260	-.00430	-.00600	1.64680
3.490	14.004	5.37600	.30140	.15520	-.02089	.33000	.07760	-.06300	-.00550	-.00680	1.94240
3.490	16.042	5.37580	.35650	.18210	-.02120	.39290	.07560	-.05870	-.00570	-.00770	1.96790
3.490	18.068	5.38310	.41360	.21430	-.02160	.45960	.07540	-.05930	-.00710	-.00820	1.93020
3.490	20.102	5.39120	.47270	.25200	-.02310	.53060	.07420	-.05530	-.00750	-.00860	1.87600
3.490	22.135	5.40650	.53150	.29510	-.02480	.60350	.07310	-.05000	-.00910	-.00890	1.80110
3.490	24.166	5.42170	.58990	.34340	-.02660	.67880	.07190	-.05000	-.00970	-.00910	1.71760
3.490	25.182	5.43390	.61720	.36840	-.02740	.71570	.07160	-.05300	-.01050	-.00940	1.67100
GRADIENT		-.01180	.02153	-.00105	.00049	.02308	-.00180	.00109	-.00042	-.00037	.23238

TABULATED DATA - 0A161 (ARC 11-97-87-09A)

(RE7018) (02 AUG 78)

ARC 11-97-87-09A 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 379.0800 IN. ZO
 SCALE = .0300

BETA = -5.000' ELEVON = .000
 AIRLON = 2.500 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 168/ 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.597	.137	-4.92820	-.05330	.05080	-.03160	-.03320	.05090	.07320	-.00530	.01270	-1.03070
.597	2.147	-4.93786	.03798	.05070	.03170	.03988	.04930	.07090	-.00510	.01420	-.74690
.598	4.184	-4.93470	1.3360	.06400	.03110	.13720	.04410	.07298	-.00420	.01550	2.47580
.597	6.270	-4.92960	.23220	.06108	.02898	.23750	.03530	.07140	-.00360	.01650	3.80370
.597	8.363	-4.91650	.33770	.07260	.02720	.34460	.02270	.06990	-.00460	.01980	4.65320
.597	10.474	-4.90530	.44590	.09020	.02610	.45480	.00760	.06520	-.00450	.02280	4.94530
.597	12.585	-4.87930	.55630	.11800	.02330	.57160	-.00670	.06510	-.00400	.02470	4.74160
.597	14.694	-4.87280	.65850	.18430	.02110	.67960	-.00830	.07620	-.00620	.02000	4.01360
.587	16.791	-4.87678	.75480	.22310	.01710	.78710	-.00450	.07800	-.00650	.01760	3.38400
.597	18.909	-4.90830	.84160	.28810	.01240	.88560	-.00010	.07820	-.00640	.01510	2.92060
.597	21.013	-4.90120	.93050	.35720	.00770	.99670	-.00020	.08350	-.00600	.00990	2.60470
.597	23.117	-4.89310	1.01770	.42850	.00300	1.10420	-.00090	.09850	-.00580	.00400	2.37500
.597	25.206	-4.88300	1.08270	.49740	.02840	1.19140	-.01090	.09930	-.00070	.00330	2.17650
.597	28.296	-4.87030	1.09480	.51420	.04860	1.17350	-.00440	.08220	-.00070	.00330	2.05130
.598		-.00159	.04607	.00079	-.00012	.04693	-.00168	-.00007	-.00027	.00871	.86914

GRADIENT

RUN NO. 161/ 0 RV/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.900	.110	-4.96780	-.05600	.07090	.04370	-.05580	.07100	.08250	-.00540	.00838	-.78900
.901	2.177	-4.96670	.06150	.07380	.03570	.06420	.07148	.08820	-.00520	.01020	8.3280
.901	4.258	-4.97330	.17490	.08430	.02660	.18060	.07110	.08598	-.00550	.00950	2.07350
.899	6.358	-4.96170	.27700	.10030	.02290	.28650	.06890	.08270	-.00380	.01140	2.76330
.899	8.485	-4.94850	.37350	.12340	.02050	.38810	.06890	.07850	-.00300	.01480	2.98040
.899	10.612	-4.94230	.47080	.15730	.01670	.49170	.06790	.07680	-.00220	.01690	2.99350
.899	12.739	-4.92700	.56410	.19910	.01230	.59410	.06938	.07820	-.00138	.01620	2.83250
.900	14.883	-4.93200	.65690	.24990	.00820	.69300	.07280	.07400	-.00268	.01450	2.62810
.901	17.085	-4.94300	.75040	.30720	.00410	.80748	.07400	.07848	-.00620	.01410	2.44270
.899	19.172	-4.95970	.82840	.35990	.01310	.89310	.07059	.07530	.01120	.01320	2.27940
.900	21.310	-4.96780	.88600	.42860	.02860	.97910	.07190	.07870	.01250	.01250	2.09540
.900	23.425	-4.95980	.91690	.47820	.06360	1.03140	.07438	.06880	.02220	.01860	1.91710
.902	25.498	-4.91580	.91610	.52820	.10070	1.05420	.08248	.07700	.00820	.01380	1.73400
.899	28.506	-4.91220	.91250	.54510	.11340	1.05988	.08860	.09320	.00420	.01380	1.67400
		-.00133	.05567	.00323	-.00412	.05695	.00002	.00106	-.00002	.00029	.69001

GRADIENT

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SO.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

BETA =
AIRLON =

-5.000 ELEVON = .000
2.580 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 170/ 0 RVAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.198	.102	-4.97120	-.02220	.14570	.03610	-.02200	.14570	.08110	-.00570	.01400	.15250
1.199	2.178	-4.95860	.09330	.14890	.01060	-.10490	.14590	.07780	-.00480	.01480	.66670
1.199	4.278	-4.98650	.21940	.16020	-.01300	.23070	.14340	.07400	-.00380	.01440	1.36920
1.199	8.545	-4.94420	.44600	.20710	-.04200	.47180	.13880	.07010	-.00170	.01510	2.15310
1.199	10.638	-4.93260	.54940	.24300	-.04890	.58490	.13680	.06700	-.00240	.01600	2.26120
1.199	12.856	-4.94070	.69950	.28800	-.06020	.70710	.13400	.06700	-.00120	.01360	2.29010
1.199	15.028	-4.95710	.76710	.34400	-.07170	.83000	.13330	.07880	.00130	.01270	2.23000
1.199	17.189	-4.95200	.85740	.40430	-.07550	.93860	.13290	.07330	.00360	.01240	2.12060
1.199	21.509	-4.95800	1.00790	.53320	-.07440	1.13320	.12650	.05860	.01300	.01330	1.89050
GRADIENT		.00113	.05785	.00348	-.04176	.06051	-.00055	-.00170	.00046	.00010	.36434

RUN NO. 171/ 0 RVAL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.194	.078	-4.97920	-.00670	.14730	.01500	-.00650	.14730	.07660	-.00540	.00960	.04570
1.194	4.234	-4.97250	.20060	.15700	-.02200	.21170	.14180	.06510	-.00410	.01160	1.27780
1.194	8.490	-4.93810	.40460	.19820	-.05880	.42940	.13630	.05640	-.00080	.01170	2.04080
1.199	10.633	-4.94760	.50150	.23040	-.06210	.53540	.13380	.06528	.00010	.01160	2.17650
1.199	12.779	-4.95450	.59480	.27000	-.07420	.63970	.13180	.07550	.00070	.01330	2.20270
1.199	14.946	-4.97770	.68870	.31780	-.08050	.74740	.12940	.08250	.00350	.01060	2.16750
1.199	17.182	-4.95930	.77840	.37140	-.08660	.85320	.12610	.06770	.00620	.01070	2.09580
1.199	21.445	-4.97150	.94260	.49570	-.09280	1.05930	.11860	.05900	.01500	.01070	1.89390
GRADIENT		.00161	.04989	.00233	-.00890	.05251	-.00132	-.00277	.00031	.00048	.31850

TABULATED DATA - 04161 (ARC 11-97-87-09H)

ARC 11-97-87-09H 04161 ORBITER

(RE70197) (02 AUG 76)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.8800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 935.8800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA =
 AIRLON =
 -2.000 ELEVON = .000
 2.500 BOFLAP = -7.170

RUN NO. 1594 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.597	.104	-1.87680	-0.0150	.05330	.03440	-.06150	.05340	.02330	-.00060	.01000	-1.15740
.597	2.124	-1.85230	.02950	.05270	.03430	.03080	.05160	.02040	-.00040	.01090	.56180
.597	4.172	-1.84450	.12690	.06590	.03350	.13060	.04610	.02110	.00000	.01150	2.26520
.598	6.250	-1.83580	.22630	.06150	.03230	.23170	.03540	.02060	.00020	.01210	3.68280
.598	8.337	-1.83540	.33150	.07270	.02870	.33860	.02380	.01850	-.00040	.01340	4.56150
.598	10.446	-1.83580	.43830	.09030	.02720	.44740	.00950	.01980	-.00030	.01560	4.85450
.598	12.572	-1.82620	.54870	.11720	.02760	.56110	-.00500	.01920	.00000	.01630	4.68080
.597	14.668	-1.79660	.66010	.16410	.02500	.67040	-.00590	.02280	-.00190	.01330	3.96190
.597	16.803	-1.85630	.73920	.22040	.02190	.77130	-.00270	.02910	-.00220	.01070	3.35380
.597	18.935	-1.89580	.83620	.29080	.01510	.88500	.00300	.02790	-.00170	.01000	2.86550
.597	21.050	-1.84870	.93090	.36330	.00950	.99930	.00460	.03130	-.00060	.00720	2.56260
.597	23.139	-1.83690	1.00840	.43380	.01740	1.09740	.00190	.03460	.00040	.00470	2.32870
.598	25.211	-1.81190	1.05680	.49720	.03450	1.16790	-.00030	.03710	.00040	.00198	2.12530
.597	26.289	-1.79700	1.04160	.51400	.05580	1.16150	.0010	.03240	.00160	.00360	2.02640
.597		.00793	.04634	.00054	-.80022	.04722	-.00180	-.00654	.00015	.00037	.84625

RUN NO. 1627 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.980	.078	-1.87970	-.05150	.07270	.04810	-.06140	.07280	.02050	.00140	.00800	-.84560
.982	2.149	-1.87200	.05970	.07560	.03790	.06250	.07330	.02750	.00160	.00880	.78890
.981	4.235	-1.86820	.17460	.06670	.02830	.18050	.07360	.02790	.00080	.00730	2.01330
.982	6.349	-1.85730	.27480	.10330	.02480	.28450	.07220	.02290	.00060	.00770	2.66340
.982	8.464	-1.85530	.37030	.12760	.02190	.38480	.07180	.02280	.00190	.01010	2.89570
.899	10.602	-1.84370	.46080	.15770	.02160	.48200	.07030	.02110	.00230	.00990	2.92150
.903	12.742	-1.84190	.56150	.20390	.01600	.58270	.07500	.02730	.00200	.00990	2.75350
.900	14.860	-1.85010	.65080	.25080	.00800	.69340	.07550	.03160	.00160	.00960	2.42350
.900	17.034	-1.89140	.73650	.30590	.00730	.79320	.07480	.02730	.00250	.00910	2.24990
.899	19.260	-1.88770	.82180	.36530	.01270	.89630	.07470	.02650	.00370	.00870	2.06930
.899	21.341	-1.88100	.88360	.42760	.02770	.97840	.07520	.02770	.00570	.00740	1.88450
.900	23.442	-1.85750	.93500	.48020	.05750	1.02130	.08060	.02130	.00730	.00730	1.68450
.899	25.490	-1.84580	.95470	.51840	.10610	1.03070	.08290	.06580	-.00550	-.00150	1.42690
.900	26.505	-1.83300	.90010	.54300	.11410	1.04780	.08430	.05360	.00110	.00320	1.65750
		.00277	.00337	.00054	-.00475	.05820	.00019	.00178	-.00014	-.00017	.68769

(RE7019) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = 2.500 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC: 11-97-87-08R)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1070.6800 IN. X0
LREF = 479.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.8800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 169/ 0 RM/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.200	.080	-1.88630	-.02398	.03760	-.02370	.14640	.02400	-.00190	.00880	-.16310
1.199	.248	-1.87220	.21710	-.01180	.22850	.14540	.03160	-.00070	.00890	1.34100
1.197	8.536	-1.84220	.44510	-.04380	.47110	.14030	.02670	-.00090	.00870	2.13250
1.196	10.700	-1.83130	.54840	-.05010	.56380	.13680	.02720	-.00080	.01040	2.26580
1.195	12.890	-1.83760	.65970	-.06000	.70530	.13410	.03690	-.00090	.00900	2.28610
1.194	15.004	-1.87320	.76190	-.06980	.82490	.13480	.04050	-.00150	.00790	2.21600
1.193	17.219	-1.91640	.85600	-.07630	.93820	.13550	.03640	.00030	.00840	2.10230
1.192	21.560	-1.87850	1.00330	-.07220	1.13030	.13060	.01760	.00560	.01150	1.86950
1.191		.00338	.05782	-.01185	.05050	-.00024	.00182	.00029	.00002	.36084

RUN NO. 172/ 0 RM/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.401	.049	-1.88850	-.01000	.01740	-.00990	.14650	.04090	-.00050	.00650	-.06840
1.401	.264	-1.88060	.19850	-.02040	.20980	.14230	.03240	-.00050	.00740	1.26100
1.397	8.969	-1.87690	.40310	-.04390	.43680	.13610	.02870	-.00030	.00700	2.03160
1.396	10.750	-1.85890	.50520	-.06350	.53870	.13410	.03320	.00020	.00660	2.17430
1.397	12.878	-1.81320	.60240	-.07510	.64840	.13340	.02960	-.00040	.00580	2.19590
1.398	14.971	-1.84360	.69840	-.08200	.74930	.12960	.04080	.00200	.00600	2.15560
1.398	17.101	-1.82320	.78010	-.08890	.85340	.12770	.02590	.00140	.00760	2.08620
1.396	21.408	-1.84740	.93860	-.09350	1.05590	.12180	.02610	.00480	.00740	1.88180
		.00211	.04950	-.00897	.05213	-.00400	-.00202	.00000	.00021	.31543

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(RET020) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 956.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = 2.500 BDELAP = -7.170

RUN NO. 1587 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.094	.16180	.06550	.05360	.03560	.06340	.05370	-.00980	.00170	.00880	-1.22230
.597	2.118	.20970	.02550	.05300	.03580	.02740	.05210	-.01290	.00190	.00900	.48040
.597	4.175	.20940	.12350	.05540	.03490	.12720	.04620	-.01290	.00200	.00940	2.23090
.596	6.242	.21410	.22040	.06210	.03320	.22590	.03780	-.01150	.00230	.00960	3.56030
.597	8.336	.20150	.32920	.07260	.02950	.33620	.02410	-.01220	.00210	.01010	4.53580
.597	10.433	.21900	.43920	.09040	.02780	.44830	.00940	-.01110	.00220	.01070	4.85850
.596	12.526	.21770	.54520	.11650	.02860	.55740	.00460	-.01160	.00250	.01070	4.68110
.596	14.613	.23280	.64250	.16180	.02750	.66250	.00590	-.00940	.00280	.00840	3.97160
.597	16.768	.22720	.73850	.22000	.02370	.77050	.00240	-.00550	.00260	.00570	3.35670
.597	18.883	.22668	.83600	.28000	.01850	.88360	.00310	-.00540	.00130	.00520	2.89310
.597	21.004	.21590	.93320	.36330	.01080	1.00150	.00470	-.00360	.00130	.00520	2.56850
.597	23.094	.21080	1.04340	.43400	.01650	1.10240	.00140	-.00390	.00130	.00170	2.33480
.597	25.171	.21520	1.09360	.49330	.03640	1.16420	.0000	-.00510	.00090	.00200	2.12740
.598	26.187	.20850	1.04670	.51578	.05590	1.16690	.00890	-.00810	.00090	.00110	2.02950
.597	GRADIENT	.01633	.04631	.08044	-.00017	.04719	-.00184	-.00076	.00007	.00015	.84661

RUN NO. 1637 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.590	.066	.17790	.06630	.07440	.05020	.06620	.07440	-.01930	.00500	.00820	-.89200
.590	2.145	.21950	.06330	.07658	.04030	.06610	.07450	-.01950	.00460	.00800	.68640
.590	4.245	.22010	.16670	.08530	.03220	.17210	.07270	-.01320	.00360	.00590	1.94940
.590	6.352	.21270	.27690	.10230	.02640	.28010	.07170	-.00930	.00330	.00590	2.64410
.590	8.471	.22330	.36880	.12690	.02360	.38150	.07150	-.01298	.00350	.00770	3.88320
.590	10.606	.22270	.46480	.15910	.02130	.48620	.07080	-.01180	.00310	.00750	2.92170
.597	12.787	.21760	.54750	.19830	.02180	.57810	.07270	-.00760	.00210	.00590	2.76350
.597	14.861	.22610	.64260	.24320	.01450	.68400	.07220	-.00190	.00670	.00630	2.42660
.599	17.007	.22330	.73520	.30308	.00850	.79170	.07470	-.00120	.00190	.00530	2.24530
.599	19.158	.22360	.82990	.36790	.01120	.90090	.07640	-.00160	.00190	.00530	2.05760
.591	21.293	.20810	.88190	.42888	.02640	.97730	.07910	-.00470	.00260	.00530	1.88360
.599	23.391	.20370	.90740	.48170	.06230	1.02400	.08190	-.02750	.00600	.00710	1.71690
.597	25.460	.19730	.89370	.52050	.10920	1.03070	.08530	-.00400	.00280	.00360	1.65280
.591	26.483	.21230	.90090	.54510	.11500	1.04940	.08610	-.00400	.00334	.00055	.67977
.591	GRADIENT	.01008	.05563	.00261	-.00431	.05702	-.00011	.00146			

PAGE: 109

(RE7020) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 2.500 BOFLAP = -7.170

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 0A181 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 168/ 0 RAYL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	LAD
1.200	.044	.20020	-.02740	.14690	.03910	-.02730	.14600	-.01080	.00010	.00560	-.18790
1.199	.263	.21160	.21500	.16130	-.01030	.22640	.14480	-.00180	.00010	.00550	1.33340
1.198	6.385	.21680	.33280	.18090	-.02970	.35080	.14280	.00020	-.00030	.00570	1.83920
1.197	8.547	.22870	.44440	.20790	-.04340	.47040	.13950	.00100	-.00060	.00480	2.13790
1.196	10.714	.23180	.55070	.24196	-.06070	.58500	.13530	-.00450	.00010	.00700	2.27630
1.195	12.867	.23470	.65690	.26680	-.07560	.70420	.13340	.00260	.00040	.00620	2.28990
1.194	15.036	.23740	.76360	.34240	-.08830	.81570	.13530	-.00140	.00090	.00540	2.20080
1.193	17.194	.24090	.87170	.40620	-.07560	.93370	.13630	.00060	.00150	.00340	2.09670
1.192	21.495	.24340	1.00490	.53670	-.07470	1.13160	.1310	-.00220	.00160	.00570	1.87240
1.191	25.729	.24580	1.14800	.67100	-.05660	1.28950	.12350	.01050	-.00140	.00510	1.65130
1.190		.00270	.05746	.00363	-.0171	.05014	-.00048	.00213	-.00005	-.00002	.38087

RUN NO. 173/ 0 RAYL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	LAD
1.403	.034	.20070	-.01090	.14970	.01850	-.01090	.14570	-.00200	.00010	.00430	-.07510
1.402	.265	.17440	.19790	.15640	-.07360	.20900	.14130	.01620	.00090	.00460	1.26530
1.401	6.416	.19230	.30330	.17390	-.03810	.32990	.13990	-.00080	-.00090	.00450	1.74470
1.399	8.596	.17290	.40490	.19840	-.05010	.43000	.13570	.00270	.00060	.00360	2.04100
1.398	10.764	.17940	.50300	.23120	-.06210	.53740	.13310	-.00280	.00120	.00390	2.17620
1.397	12.927	.17820	.60470	.27420	-.07590	.65080	.13200	.00090	.00090	.00440	2.20540
1.396	15.089	.16050	.69790	.32270	-.08548	.75780	.12990	.00130	.00110	.00410	2.08190
1.395	17.234	.17900	.78740	.37826	-.09240	.86420	.12770	-.00180	.00230	.00490	1.86990
1.394	21.551	.21760	.94110	.50330	-.09340	1.06010	.12240	.00570	-.00080	.00550	1.65800
1.393	25.777	.21760	1.06810	.64420	-.08200	1.24190	.11560	.01040	.00024	.00807	.31675
1.394		-.00621	.04934	.00253	-.00898	-.05196	-.00104	.00430			

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OF POOR QUALITY

(RE7021) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = 2.500 BOFLAP = -2.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
REF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 1577 0. RV/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CX	CYN	CEL	L/D
.596	.091	2.25050	.06860	.05350	.03440	.06900	.05360	-.04820	.00410	.00720	-1.27110
.596	2.124	2.28130	.02630	.05290	.03370	.02830	.05190	-.04630	.00450	.00680	.49810
.596	4.184	2.29490	.02340	.05590	.03330	.12710	.04680	-.04460	.00450	.00680	2.20590
.596	6.266	2.30590	.02290	.06210	.03170	.22840	.03740	-.04570	.00450	.00660	3.58760
.596	8.356	2.31260	.02670	.07280	.02780	.33380	.02450	-.04630	.00450	.00640	4.49030
.596	10.465	2.32710	.03960	.09060	.02560	.44880	.00930	-.04730	.00450	.00610	4.85120
.597	12.621	2.34880	.05050	.11740	.02560	.56280	.00570	-.04830	.00500	.00500	4.88900
.597	14.760	2.36970	.06130	.16490	.02480	.67180	.00660	-.04820	.00500	.00480	3.94970
.597	16.908	2.39780	.07480	.22330	.02110	.77850	.00880	-.04620	.00370	.00780	3.33920
.597	19.010	2.43000	.09430	.29140	.01370	.89220	.00980	-.04130	.00410	.00190	2.89420
.596	21.099	2.47910	.12160	.36540	.00850	1.01000	.00500	-.03490	.00420	.00050	2.57680
.596	23.181	2.53970	.15320	.44090	.0080	1.12240	.00100	-.02750	.00050	.00050	2.34120
.596	25.229	2.61070	.18630	.51600	.03290	1.17490	.00220	-.02750	.00070	.00090	2.13270
.597	26.228	2.69370	.22140	.59820	.05820	1.16580	.00090	-.01470	.00170	.00240	2.02570
	GRADIENT	.01081	.04665	.00059	-.00027	.04755	.00166	.00088	.00010	.00010	.84795

RUN NO. 1578 0. RV/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CX	CYN	CEL	L/D
.900	.098	2.28440	.07050	.07480	.04830	.07040	.07480	-.06220	.00800	.00770	-.94300
.901	2.147	2.30800	.04760	.07490	.03950	.05040	.07310	-.05740	.00770	.00680	.63460
.900	4.257	2.31600	.16770	.08540	.02910	.17350	.07270	-.04970	.00680	.00490	1.96330
.899	6.371	2.32560	.26930	.10130	.02580	.27880	.07080	-.04800	.00510	.00440	2.55060
.900	8.500	2.32670	.37170	.12690	.02130	.38640	.07060	-.04590	.00480	.00460	2.92800
.900	10.633	2.32890	.46180	.16020	.02110	.48340	.07230	-.03720	.00320	.00300	2.88170
.899	12.793	2.31530	.54910	.19890	.02100	.57950	.07240	-.03830	.00180	.00360	2.76100
.901	14.951	2.34110	.65370	.25290	.01030	.69680	.07570	-.03870	.00170	.00390	2.58450
.899	17.132	2.34810	.73980	.30620	.00950	.79620	.07500	-.03260	.00580	.00350	2.44230
.900	19.275	2.33560	.82220	.36700	.01330	.89720	.07500	-.02840	.00220	.00220	2.24220
.901	21.394	2.31830	.88740	.43250	.02740	.98480	.07910	-.01570	.00170	.00140	2.05170
.900	23.443	2.31920	.88630	.47530	.06770	1.06220	.08350	-.01190	.02170	.00090	1.85470
.900	25.503	2.33210	.88640	.51750	.11110	1.02280	.08540	-.01390	.00680	.00090	1.71300
.900	26.516	2.35690	.89340	.54500	.11470	1.04810	.08640	-.02430	.00740	.00260	1.65030
	GRADIENT	.00752	.05673	.00253	-.00457	.09809	.00040	.00307	.00033	.00067	.68207

TABULATED DATA - 0A161 (ARC 11-97-87-09%)

(RET021) (02 AUG 75)

ARC 11-97-87-09% 0A161 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2596.0000 SQ.FT. YMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0800 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0360

BETA =
 AIRLON =

2.000 ELEVON = .000
 2.500 EOLAP = -7.170

RUN NO. 167/ 0 RWL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEL	L/D
1.193	.044	2.28870	-.02980	.03920	-.03970	.14608	-.03670	.00250	.00267	-.20410
1.200	4.270	2.29020	.21240	-.01010	.23380	.14470	-.01930	.00150	.00210	1.31940
1.198	8.574	2.31460	.44430	-.04400	.47020	.14040	-.02560	-.00850	.00170	2.12530
1.197	10.736	2.32230	.54620	-.04960	.50180	.13630	-.03390	.00670	.00260	2.25410
1.195	12.917	2.31060	.65630	-.05860	.70440	.13430	-.03790	-.00010	.00300	2.27850
1.199	15.090	2.34800	.75780	-.06740	.82140	.13550	-.03530	.00970	.00320	2.19770
1.197	17.307	2.37340	.85530	-.07640	.93030	.13650	-.03350	-.00310	.00240	2.08690
1.200	21.592	2.32530	1.00460	-.07390	1.13170	.12970	-.01940	-.00830	.00100	1.87260
GRADIENT		.00035	.05731	-.01167	.05989	-.00031	.00412	-.00024	-.00017	.36051

RUN NO. 174/ 0 RWL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CEL	L/D
1.402	.065	2.32070	-.01100	.01810	-.01080	.14610	-.03330	.00110	.00210	-.07510
1.401	4.277	2.31840	.19760	-.01930	.20880	.14200	-.03020	-.00090	.00140	1.23480
1.398	8.574	2.25500	.40510	-.05050	.43610	.13550	-.02340	.00120	.00310	2.04480
1.398	10.709	2.24200	.50260	-.06360	.53690	.13470	-.02650	-.00170	.00190	2.16530
1.397	12.814	2.25640	.60040	-.07620	.64620	.13360	-.03100	.00210	.00280	2.19430
1.400	14.957	2.29730	.69280	-.08420	.75190	.13060	-.02540	.00260	.00280	2.16350
1.399	17.138	2.33230	.78170	-.09100	.85730	.12740	-.02980	-.00460	.00130	2.06680
1.397	21.449	2.31790	.93850	-.09400	1.05610	.12160	-.01440	-.00790	.00220	1.87950
GRADIENT		-.00055	.04952	-.00860	.05213	-.00097	.00074	-.00047	-.00017	.31573

UNCLASSIFIED DATA - 04161 (ARC 11-97-87-09H)

ABC 11-97-87-094 04161 ORBITER

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1075.6900	IN.	X0
LREF	=	474.8000	IN.	YMRP	=	.0000	IN.	Y0
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	Z0
SCALE	=	.0300						

BETA **ATL** **RON**

GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.110	5.35980	-.06270	.05100	.02880	-.06260	.05110	-.10280	.00870	-.00500	-1.22890
.596	2.143	5.37790	.07000	.05060	.02860	.03190	.04940	-.10250	.00880	.00460	.59400
.596	4.210	5.38220	.12660	.05330	.02763	.13010	.04380	.09840	.00910	.00380	2.37580
.596	6.298	5.38830	.22790	.06110	.02591	.23330	.03570	.09680	.00850	.00320	3.72380
.595	8.387	5.39440	.32900	.07270	.02409	.33600	.02400	.09870	.00820	.00140	4.52420
.595	10.511	5.38890	.44090	.08960	.02213	.44990	.00770	.09570	.00420	-.00100	4.92070
.595	12.639	5.38840	.55710	.11710	.02071	.56920	-.00766	.09530	.00200	-.00200	4.75670
.595	14.795	5.38100	.65860	.16588	.01673	.67910	-.00710	.09170	.00650	-.00370	3.97260
.595	16.860	5.37650	.75220	.22020	.01570	.78370	.00750	.09170	.00780	-.00320	3.41650
.597	18.977	5.38290	.85130	.28730	.00978	.89860	.00520	.09610	.00860	-.00360	2.96360
.595	21.076	5.38830	.95430	.36220	.00190	1.02080	.00520	.09160	.01000	-.00230	2.63450
.595	23.166	5.39610	1.06110	.44380	-.08170	1.15010	.00940	.10160	.01320	-.00120	2.35070
.597	25.221	5.41450	1.11470	.51190	.01270	1.22660	-.01190	.10610	.00840	.00320	2.17770
.597	26.176	5.39380	1.03710	.58790	.05350	1.15480	.00170	.06430	.00240	-.00420	2.04210
.597								.06082	.00010	-.00054	.87905

Iteration	Value	Gradient	Interval
1	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000
5	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000
8	0.000000	0.000000	0.000000
9	0.000000	0.000000	0.000000
10	0.000000	0.000000	0.000000
11	0.000000	0.000000	0.000000
12	0.000000	0.000000	0.000000
13	0.000000	0.000000	0.000000
14	0.000000	0.000000	0.000000
15	0.000000	0.000000	0.000000
16	0.000000	0.000000	0.000000
17	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000
19	0.000000	0.000000	0.000000
20	0.000000	0.000000	0.000000
21	0.000000	0.000000	0.000000
22	0.000000	0.000000	0.000000
23	0.000000	0.000000	0.000000
24	0.000000	0.000000	0.000000
25	0.000000	0.000000	0.000000
26	0.000000	0.000000	0.000000
27	0.000000	0.000000	0.000000
28	0.000000	0.000000	0.000000
29	0.000000	0.000000	0.000000
30	0.000000	0.000000	0.000000
31	0.000000	0.000000	0.000000
32	0.000000	0.000000	0.000000
33	0.000000	0.000000	0.000000
34	0.000000	0.000000	0.000000
35	0.000000	0.000000	0.000000
36	0.000000	0.000000	0.000000
37	0.000000	0.000000	0.000000
38	0.000000	0.000000	0.000000
39	0.000000	0.000000	0.000000
40	0.000000	0.000000	0.000000
41	0.000000	0.000000	0.000000
42	0.000000	0.000000	0.000000
43	0.000000	0.000000	0.000000
44	0.000000	0.000000	0.000000
45	0.000000	0.000000	0.000000
46	0.000000	0.000000	0.000000
47	0.000000	0.000000	0.000000
48	0.000000	0.000000	0.000000
49	0.000000	0.000000	0.000000
50	0.000000	0.000000	0.000000
51	0.000000	0.000000	0.000000
52	0.000000	0.000000	0.000000
53	0.000000	0.000000	0.000000
54	0.000000	0.000000	0.000000
55	0.000000	0.000000	0.000000
56	0.000000	0.000000	0.000000
57	0.000000	0.000000	0.000000
58	0.000000	0.000000	0.000000
59	0.000000	0.000000	0.000000
60	0.000000	0.000000	0.000000
61	0.000000	0.000000	0.000000
62	0.000000	0.000000	0.000000
63	0.000000	0.000000	0.000000
64	0.000000	0.000000	0.000000
65	0.000000	0.000000	0.000000
66	0.000000	0.000000	0.000000
67	0.000000	0.000000	0.000000
68	0.000000	0.000000	0.000000
69	0.000000	0.000000	0.000000
70	0.000000	0.000000	0.000000
71	0.000000	0.000000	0.000000
72			

MACH.	ALPHA.	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.893	.089	5.38560	.07530	.07340	.04510	.07560	.07340	.11500	.01398	.80720	-1.02760
.900	2.160	5.40290	.04350	.07470	.03630	.04630	.07300	.11360	.01380	.00508	.58220
.980	4.271	5.41240	.16370	.08430	.02530	.16950	.07190	.11130	.01240	.00300	1.94100
.902	6.399	5.41300	.27350	.10260	.01930	.28320	.07150	.10700	.01090	.00160	2.65430
.951	8.518	5.41510	.36990	.12700	.01920	.38460	.07080	.09940	.00950	.00010	2.91210
.939	10.659	5.40590	.45530	.15540	.01970	.47600	.06850	.09470	.00530	.00280	2.92950
.901	12.795	5.41050	.53000	.19860	.01500	.58040	.07180	.09200	.00320	.00160	2.76990
.901	14.945	5.43020	.65570	.25290	.00690	.69850	.07440	.09230	.00240	.00220	2.60220
.899	17.076	5.45440	.73590	.29860	.00940	.79120	.06930	.08850	.00790	.00020	2.46480
.900	19.234	5.46150	.82310	.36210	.01210	.89640	.07070	.07800	.01450	.00110	2.27340
.899	21.357	5.46930	.88260	.42080	.03090	.97520	.07050	.07450	.01900	.00570	2.09760
.900	23.433	5.47630	.90550	.47920	.05980	1.02140	.07360	.05070	.02380	.01050	1.88970
.901	25.479	5.48430	.91010	.52300	.09960	1.04660	.08050	.06900	.01550	.01030	1.74820
.961	26.493	5.49670	.92380	.55390	.10920	1.07380	.08370	.07150	.01200	.00800	1.66740
.901	GRACIENT	.00614	.05687	.00260	.00471	.05823	.00036	.00088	.00636	.00100	.70616

(RE7022) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ATTLOW = 2.500 BOWFLAP = -7.170

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 0A181 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 165/ 0 RVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.200	.074	5.40040	-.03080	.14570	.03740	-.03060	.14580	-.08320	.00990	-.00120	-.27120
1.198	.297	5.42110	.21270	.15970	-.01090	.22410	.14390	-.08440	.00260	-.00290	1.33220
1.199	8.598	5.41080	.44160	.20840	-.04200	.46780	.14000	-.07050	.00080	-.00350	2.11910
1.198	10.767	5.39560	.54370	.24260	-.04880	.57950	.13680	-.07620	.00120	-.00340	2.24090
1.193	12.921	5.41080	.65420	.28800	-.05990	.70200	.13450	-.08150	-.00040	-.00100	2.27130
1.197	15.083	5.42650	.75880	.34260	-.07050	.82190	.13330	-.08290	-.00010	-.00070	2.21530
1.197	17.241	5.45790	.84830	.40240	-.07490	.92940	.13290	-.07820	-.00550	-.00210	2.10830
1.194	21.551	5.46620	1.00830	.53408	-.07820	1.13408	.12630	-.05950	-.01690	-.00210	1.88820
	GRADIENT	.00490	.05766	.60332	-.01144	.06031	-.00059	.00256	-.00078	-.00040	.36547

RUN NO. 175/ 0 RVL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.399	.085	5.43150	-.01150	.14680	.01520	-.01120	.14668	-.08100	.00470	-.00050	-.07800
1.399	4.292	5.42220	.19710	.15740	-.02150	.20830	.14220	-.07470	.00110	-.00260	1.25220
1.388	8.555	5.38160	.40580	.19980	-.05260	.43020	.13740	-.07100	-.00260	-.00390	2.02660
1.398	10.681	5.34880	.50160	.23210	-.06420	.53596	.13510	-.05910	-.00200	-.00320	2.16120
1.397	12.808	5.40500	.59640	.27198	-.07460	.64180	.13290	-.08240	-.00480	-.00290	2.19360
1.397	14.957	5.41740	.68480	.31810	-.08160	.74370	.13060	-.07200	-.00490	-.00160	2.15260
1.396	17.123	5.42500	.77420	.37158	-.08780	.84930	.12700	-.06780	-.00950	-.00140	2.08420
1.397	21.438	5.44700	.93810	.49680	-.09480	1.05480	.11950	-.05670	-.01830	-.00160	1.88950
	GRADIENT	-.00221	.04958	.00252	-.00872	.05217	-.00109	.00150	-.00086	-.00050	.31619

(RE7023) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-87-87-CB4)

ARC 11-87-87-09+ 0A161 ORBITER

PARAMETRIC DATA

 BETA = -5.000 ELEVON = .000
 ALLRON = 5.000 BDFLAP = -7.170

REFERENCE DATA

 SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.8000 IN. Z0
 SCALE = .0300

RUN NO. 190/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.80/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.103	.111	-4.94150	-.03330	.04820	-.03500	.14468	.06170	-.00358	.02490	-.24450
1.102	4.300	-4.95070	.22860	-.00360	-.24620	.14620	.06460	-.00230	.02380	1.39570
1.102	8.569	-4.93290	.45910	-.03260	.48680	.14310	.06410	-.00050	.02500	2.14590
1.099	10.723	-4.91740	.66330	-.03220	.68180	.13960	.05950	-.00080	.02530	2.26990
1.098	12.874	-4.90850	.86900	-.04490	.71740	.13640	.06100	-.00120	.02520	2.28490
1.102	15.052	-4.93140	.78480	-.05768	.84870	.13370	.07100	-.00110	.02070	2.24540
1.100	17.217	-4.94200	.88350	-.06440	.96570	.13460	.07400	.00230	.02050	2.13050
1.100	21.538	-4.95380	1.04098	-.06380	1.17220	.13470	.06250	.01110	.02110	1.97340
1.108	GRADIENT	-.00220	.06300	-.01189	.05570	.00036	.00059	.00029	-.00026	.39155

RUN NO. 181/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.198	.112	-4.98250	-.02030	.03540	-.02080	.14920	.07830	-.00410	.02030	-.14010
1.199	4.283	-4.96410	.22250	-.01480	.23410	.14630	.07030	-.00350	.02050	1.36240
1.201	8.561	-4.92890	.45210	-.04600	.47860	.14210	.06460	-.00140	.02170	2.13490
1.195	10.716	-4.94000	.65780	-.05360	.59430	.14060	.07300	-.00080	.02310	2.24350
1.195	12.876	-4.92680	.86730	-.06380	.71610	.13790	.06920	-.00100	.02140	2.26980
1.195	15.052	-4.94550	.77520	-.07540	.83950	.13660	.07390	.00080	.01950	2.21570
1.195	17.214	-4.94850	.86660	-.08070	.94960	.13650	.07310	.00360	.01860	2.10630
1.199	21.537	-4.96520	1.01430	-.07830	1.14150	.12920	.05930	.01410	.02030	1.88110
1.199	GRADIENT	.00513	.05836	-.01204	.05107	-.00070	-.00192	.00014	.00005	.36025

RUN NO. 180/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.400	.071	-4.95810	-.00450	.01440	-.00430	.15020	.07208	-.00500	.01490	-.02980
1.400	4.232	-4.98990	.20200	-.02280	.21320	.14410	.07750	-.00260	.01630	1.26720
1.396	8.496	-4.93200	.46550	-.06148	.43060	.13820	.05340	-.00130	.01610	2.02430
1.397	10.642	-4.93280	.50340	-.06370	.53770	.13580	.06990	.00040	.01600	2.16310
1.397	12.792	-4.95330	.69820	-.07340	.64378	.13320	.07870	.00090	.01550	2.19580
1.397	14.359	-4.94020	.69260	-.08270	.75180	.13070	.06420	.00170	.01508	2.16210
1.399	17.112	-4.97928	.77978	-.06930	.85510	.12740	.08090	.00710	.01600	2.08810
1.399	21.459	-4.98100	.94050	-.09500	1.05800	.12080	.06220	.01490	.01650	1.88910
1.400	GRADIENT	-.00764	.04963	-.00894	.05228	-.00147	.00132	.00053	.00043	.31173

ARC 11-97-87-094 0A161 ORBITER

ISREF	=	2690'.0000	50.FT.	YMRP	=	1075.6800	IN.	Z0
LEF	=	474'.8000	IN.	YMRP	=	.0000	IN.	Y0
BREF	=	936.6800	IN.	ZMRP	=	375-.0000	IN.	Z0
SCALE	=	.0300						

RUN NO.	202/ 0	RNA/L =	4.20	GRADIENT INTERVAL =	-5.00/	5.00

[illegible]

DATE	TIME	BM/1	GRADIENT	INTERVAL	5.00
10/22	14:22	BM/1	GRADIENT	INTERVAL	5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.902	.083	-1.87890	-.06870	.07730	.04690	-.06050	.07740	.00620	.00590	.01790	-.78460
.901	4.240	-1.84950	.17960	.08910	.02480	.18570	.07560	.00550	.00370	.01710	2.01540
.900	6.360	-1.84440	.28680	.10710	.01800	.29680	.07460	.01150	.00430	.01590	2.67860
.900	8.467	-1.84860	.37810	.13110	.01610	.39330	.07400	.01210	.00550	.01720	2.86370
.900	10.607	-1.84200	.45946	.16460	.01650	.49170	.07540	.01670	.00500	.01620	2.85190
.898	12.757	-1.81980	.56060	.20490	.01330	.59190	.07650	.01170	.00330	.01730	2.73540
.900	14.865	-1.82530	.68980	.25770	.00330	.70210	.08040	.01780	.00180	.01840	2.55340
.902	17.033	-1.88560	.74530	.31230	.00480	.80410	.08030	.02240	.00310	.01750	2.38610
.899	21.347	-1.87360	.89170	.43810	.02340	.92990	.08340	.02520	.00480	.01480	2.03550
.902						.95300	.08040	.00017	.00063	-.00019	.67342

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.980	.068	-1.84620	-.05330	.12410	.08460	-.06520	.12420	.01180	.00430	.02040	-.52620
.980	.264	-1.85940	.19720	.13640	.02040	.20680	.12130	.01140	.00370	.01940	1.44580
.979	8.541	-1.84270	.18630	.18630	-.01630	.48830	.1800	.04050	.00430	.01880	2.39220
.978	10.695	-1.82200	.55330	.22150	-.02790	.58960	.1410	.04090	.00210	.01950	2.51940
.978	12.842	-1.81610	.66680	.27310	-.03490	.71080	.11810	.01280	.00200	.01970	2.44160
.979	14.977	-1.84880	.76310	.32820	-.03860	.82200	.11990	.02252	.00160	.01910	2.32500
.978	17.179	-1.89700	.85630	.38720	-.03920	.93250	.11700	.02260	.00150	.01880	2.21160
.980	21.506	-1.87680	1.01390	.52210	-.03020	1.13430	.11420	.02800	.00360	.01300	1.94120
CPAC12	-.00314	.06252	.00293	.00293	-.01053	.06478	-.00069	-.00040	-.00014	-.09024	.46866

(RE7024) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-034)

ARC 11-97-87-034 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
AIRRON =
ELEVON =
BOFLAP =

PARAMETRIC DATA

RUN NO. 189 0 RM/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.102	.086	-1.8789	-0.4420	.14320	.05330	-.04400	.14330	.00840	.00220	.01910	-.30880
1.101	.265	-1.85210	.22050	.16270	-.00460	.25210	.14580	.01980	.00260	.01740	1.35590
1.101	8.559	-1.83110	.45280	.21200	-.03080	.47930	.14220	.01290	.00250	.01770	2.13680
1.100	10.721	-1.82340	.55890	.24670	-.02820	.59310	.13880	.01810	.00280	.01920	2.25770
1.101	12.874	-1.80790	.68970	.29270	-.04650	.71810	.13610	.01710	.00120	.01900	2.28820
1.101	15.032	-1.84810	.78880	.35330	-.06090	.83280	.13580	.03100	-.00290	.01290	2.23110
1.100	17.257	-1.89860	.89100	.41980	-.06570	.97540	.13550	.03100	-.00100	.01400	2.12330
1.102	21.581	-1.87880	1.03950	.55840	-.05290	1.17130	.13500	.03380	.00060	.01520	1.86850
GRADIENT		.00402	.06335	.00467	-.01290	.06607	.00060	.00280	.00010	-.00041	.39835

RUN NO. 182 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.199	.050	-1.85720	-.02570	.14990	.03810	-.02560	.14980	.02820	.00060	.01530	-.17140
1.195	4.258	-1.85910	.22030	.16580	-.01340	.23200	.14900	.02080	-.00080	.01500	1.32850
1.137	8.549	-1.84430	.44870	.21360	-.04570	.47550	.14450	.02650	-.00040	.01540	2.10070
1.195	10.719	-1.81980	.55610	.24920	-.05420	.59270	.14140	.01880	-.00010	.01810	2.23140
1.195	12.859	-1.81410	.66240	.29430	-.06220	.71130	.13940	.02270	-.00080	.01670	2.25040
1.195	15.026	-1.85780	.76450	.34960	-.07140	.82980	.13940	.03130	-.00060	.01580	2.18680
1.194	17.238	-1.90250	.86230	.41310	-.07830	.94600	.13810	.02890	.00020	.01510	2.08710
1.198	21.573	-1.87800	1.00770	.54230	-.07370	1.13650	.13800	.01780	.00370	.01730	1.85830
GRADIENT		.00193	.05847	.00378	-.01284	.06122	-.00021	-.00176	-.00033	-.00007	.35848

RUN NO. 179 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.399	.049	-1.87750	-.00830	.14940	.01700	-.00810	.14940	.01830	-.00170	.01090	-.05530
1.399	4.207	-1.91420	.19740	.15910	-.02050	.28850	.14420	.04310	-.00140	.01190	1.24040
1.397	8.495	-1.84820	.40110	.28020	-.05040	.42630	.13880	.02560	-.00070	.01180	2.00400
1.400	10.647	-1.83000	.50120	.23320	-.06420	.53570	.13650	.02360	-.00080	.01150	2.14970
1.399	12.763	-1.83000	.59850	.27420	-.07630	.64530	.13470	.03200	.00010	.01100	2.18690
1.399	14.933	-1.85820	.68790	.31950	-.08260	.74700	.13440	.02580	.00050	.01250	2.15320
1.399	17.147	-1.89220	.77990	.37580	-.09340	.85610	.12980	.01820	.00060	.01250	2.07520
1.403	21.499	-1.88950	.93720	.50250	-.09590	1.06610	.12430	.03140	.00350	.01250	1.85500
GRADIENT		-.00882	.04945	.00233	-.00902	.05207	-.00125	.00740	.00075	.00024	.31149

TABULATED DATA - 0A161 (ARC 11-97-87-(9*))

(RE7025) (02 AUG 76)

ARC 11-97-87-09% 0A161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ALFLON = 5.000 BDFLAP = -7.170

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 107E 5800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 203 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.597	.081	.21610	-.05190	.05660	.03480	-.06180	.05670	-.02720	.00440	.01900	-1.09320
.595	4.182	.21530	.12620	.05870	.03410	.13020	.04930	-.02770	.00480	.02020	2.15230
.594	6.256	.22160	.22840	.06560	.03280	.23420	.04030	-.02810	.00510	.02080	3.48400
.595	8.349	.23620	.33270	.07650	.02920	.34030	.02740	-.02990	.00500	.02160	4.34670
.596	10.443	.24440	.43920	.09400	.02810	.44800	.01300	-.02610	.00500	.02220	4.66190
.59E	12.541	.23200	.54740	.12080	.02890	.56050	-.00100	-.02730	.00520	.02220	4.53250
.596	14.659	.23620	.64500	.16810	.02730	.66650	-.00060	-.02120	.00270	.01860	3.83630
.597	16.776	.22710	.73890	.22470	.02220	.77250	.00180	-.01810	.00270	.01600	3.20880
.597	21.025	.21880	.95410	.37580	.00470	1.02940	.00850	-.01870	.00310	.01690	2.53880
.596	25.193	.21060	1.07780	.51096	.03660	1.19270	.00330	.00450	.00030	.00810	2.10980
GRADIENT		-.00820	.04586	.00051	-.00017	.04681	-.00180	-.00012	.00020	.00023	.79125

RUN NO. 198 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.901	.045	.19960	-.07010	.07750	.04990	-.07000	.07750	-.02890	.00850	.01730	-.90420
.900	4.243	.21830	.17260	.08760	.02750	.17860	.07460	-.02650	.00660	.01620	1.97030
.895	6.350	.22160	.28140	.10590	.01900	.29130	.07410	-.02370	.00620	.01440	2.65740
.900	8.474	.22540	.38000	.13190	.01590	.39530	.07450	-.02110	.00550	.01530	2.88130
.900	10.602	.22600	.46970	.16440	.01660	.49200	.07520	-.01720	.00500	.01460	2.85720
.898	12.722	.22450	.53320	.20340	.01860	.58450	.07660	-.01480	.00340	.01450	2.71950
.897	14.864	.23400	.65370	.25490	.00810	.69720	.07870	-.01250	.00180	.01520	2.58430
.904	17.018	.23070	.74830	.31470	.00300	.80760	.08190	-.00820	-.00080	.01470	2.37750
.902	21.282	.22570	.87710	.43130	.02860	.97380	.08350	-.00300	.00450	.01250	2.03360
GRADIENT		.00555	.09781	.00241	-.00534	.05921	-.00069	.00057	-.00046	-.00070	1.72200
											.68465

RUN NO. 193 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.979	.055	.22530	-.07500	.12060	.06890	-.07490	.12070	-.02780	.00550	.01810	-.62200
.980	4.279	.21180	.19330	.13690	.02690	.20300	.12210	-.01420	.00480	.01690	1.41200
.980	6.561	.23380	.44230	.18700	.01490	.48520	.11920	-.01740	.00420	.01730	2.35520
.977	10.707	.26530	.55753	.22159	.02650	.58880	.11410	-.01180	.00610	.01630	2.51580
.978	12.850	.27100	.66330	.27100	.03470	.70690	.11670	-.00840	.00390	.01560	2.44790
.978	15.031	.27330	.76080	.32650	.03740	.81920	.11850	-.00380	-.00130	.01580	2.32940
.979	17.157	.27500	.89290	.38790	.03960	.92930	.11910	-.00260	.00220	.01490	2.19870
.981	21.454	.20910	1.00540	.54740	.02850	1.12490	.11380	.01550	.00320	.00810	1.94330
GRADIENT		-.00249	.06367	.00386	-.01090	.05565	.00033	.00322	-.00017	-.00031	.48153

(RE7025) (02 AUG 75)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ALFON = 5.000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XQ
LPEF = 474.8000 IN. YMRP = .0000 IN. YO
BPEF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 188/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.100	.060	.20720	-.03460	.14230	.05780	-.05440	.14240	-.02290	.00410	-.01570	.38340
1.102	4.282	.21750	-.21770	.16260	.00220	.22920	.14580	-.01330	.00280	-.01440	1.33880
1.101	8.568	.23970	.45140	.21150	-.03070	.47790	.14190	-.01560	.00260	-.01480	2.13370
1.101	10.728	.23880	.55830	.24720	-.03810	.59460	.13900	-.01630	.00190	-.01580	2.25850
1.101	12.881	.23850	.66670	.29310	-.04570	.71530	.13710	-.01280	.00110	-.01600	2.27450
1.100	15.058	.23480	.77340	.35050	-.05800	.83790	.13750	-.00520	.00010	-.01370	2.20670
1.099	17.237	.22440	.89190	.42800	-.06680	.97630	.13680	-.00030	-.00250	-.01070	2.12360
1.101	21.529	.21840	1.03550	.55380	-.05810	1.16650	.13510	-.00160	-.00190	-.01430	1.87000
	GRADIENT	.00243	.08433	.00480	-.01314	.06700	.00083	.00227	-.00031		.40689

RUN NO. 183/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.156	.044	.17740	-.02770	.14990	.03930	-.02760	.14990	-.00370	.00370	-.01260	.18490
1.139	5.267	.21430	.21780	.16570	-.01140	.22950	.14900	-.00560	.00060	-.01180	1.51460
1.197	9.408	.21910	.33710	.19650	-.03230	.35580	.14770	-.00700	-.00050	-.01190	1.80740
1.194	8.563	.23870	.44690	.21350	-.04480	.47370	.14460	-.00510	-.00040	-.01170	2.09310
1.195	10.737	.23440	.55720	.24950	-.05470	.59390	.14120	-.00620	.00060	-.01410	2.23480
1.193	12.891	.22650	.66200	.29400	-.06180	.71090	.13890	-.00570	.00070	-.01310	2.25170
1.193	15.032	.23760	.75920	.34940	-.06890	.82390	.14020	-.00560	.00050	-.01240	2.17290
1.193	17.217	.22760	.86650	.41230	-.07780	.94020	.14030	-.00260	-.00140	-.01560	2.07740
1.199	21.523	.21510	1.00780	.54210	-.07590	1.13640	.13450	-.00030	-.00170	-.01210	1.85930
	GRADIENT	.00874	.05814	.00374	-.01201	.06089	.00021	.00420	-.00410	.00980	1.63930
								-.00220	-.00073	-.00019	.35511

RUN NO. 178/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.400	.011	.16370	-.01310	.14830	.01810	-.01310	.14830	-.00790	.00190	-.00930	-.08840
1.400	2.105	.21580	.00900	.14930	-.00120	.09830	.14580	-.00880	-.00040	-.00870	.60880
1.399	4.215	.19430	.19640	.15820	-.01910	.20720	.14330	-.00770	.00050	-.00870	1.24210
1.396	6.344	.23950	.29950	.17550	-.03490	.31780	.14130	-.01510	-.00210	-.00860	1.70630
1.393	8.500	.23990	.40010	.19940	-.04970	.42520	.13810	-.00200	.00170	-.00880	2.00630
1.395	10.650	.24140	.50120	.23740	-.06370	.53560	.13580	-.00780	.00170	-.00870	2.15400
1.393	12.824	.22750	.60120	.27450	-.07670	.64410	.13440	-.00190	-.00130	-.00930	2.19830
1.399	14.966	.22770	.69340	.32162	-.08590	.75300	.13160	-.00330	.00110	-.00920	2.15620
1.399	17.135	.23270	.78380	.37750	-.09280	.86020	.12980	-.00450	.00020	-.00900	2.07660
1.399	21.438	.20130	.93510	.50160	-.09540	1.05470	.12470	-.00940	-.00120	-.01020	1.85630
1.400	25.700	.21950	1.05640	.64340	-.08250	1.22960	.11890	.00210	-.00200	-.01030	1.64980
	GRADIENT	.00726	.04976	.00236	-.00885	.03240	.00119	-.00004	-.00033	-.00014	.31995

TABULATED DATA - OAINS (ARC 11-97-87-09#)

ARC 11-97-87-09# 04161 ORBITTER

(RE70261 (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = 5.000 BDFLAP = -7.170

RUN NO. 204/ 0. RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CB	L/D
.597	.094	2.27240	.06350	.05620	.03270	.06350	.05630	-.06060	.00670	.01740	-1.13250
.594	4.195	2.31430	.12730	.05930	.03200	.13130	.04980	-.06170	.00720	.01760	2.14620
.592	8.367	2.33650	.30300	.07620	.02670	.33790	.02740	-.06040	.00720	.01770	4.33180
.596	10.475	2.38800	.44070	.09430	.02510	.45050	.01260	-.06100	.00740	.01660	4.67510
.595	12.630	2.32900	.55370	.12240	.02590	.55700	-.00170	-.06120	.00780	.01640	4.52500
.595	14.754	2.31350	.65540	.17136	.02880	.67740	-.00130	-.05630	.00590	.01390	3.82510
.596	16.938	2.31320	.75440	.22980	.01840	.78870	.00650	-.05460	.00590	.01230	3.28270
.597	21.123	2.29940	.96330	.37910	.00130	1.03520	.00650	-.05620	.00690	.01510	2.50060
GRADIENT		.01022	.04655	.00076	-.00017	.04750	-.00156	-.00027	.00012	.00005	.73941

RUN NO. 197/ 0. RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CB	L/D
.901	.039	2.30330	-.07690	.07710	.05630	-.07640	.07720	-.06790	.01010	.01640	-.99110
.901	4.255	2.32210	.17120	.09020	.02680	.17750	.07720	-.06600	.00980	.01520	1.89940
.899	6.372	2.32720	.29300	.10690	.01670	.29320	.07480	-.06020	.00720	.01290	2.64830
.901	8.489	2.32180	.37650	.13430	.01680	.39420	.07690	-.05110	.00630	.01240	2.81780
.900	10.625	2.33330	.45840	.16460	.01650	.46880	.07570	-.04920	.00460	.01080	2.83420
.900	12.792	2.31500	.55960	.20610	.01550	.59130	.07710	-.04220	.00380	.01100	2.71510
.903	14.954	2.33790	.65220	.26140	.00520	.70720	.08170	-.04380	-.00890	.01290	2.53310
.900	17.131	2.34790	.74880	.31450	.00410	.80820	.08000	-.04070	-.00520	.01260	2.38700
.902	21.382	2.33270	.87890	.43480	.03010	.97690	.08450	-.02730	-.01450	.01030	2.05110
GRADIENT		.00446	.05876	.00311	-.00581	.06023	.00000	.00045	-.00028	-.00028	.68983

RUN NO. 194/ 0. RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CB	L/D
.980	.070	2.28270	-.07970	.12330	.07130	-.07960	.12340	-.06650	.00860	.01540	-.64700
.980	4.289	2.32380	.18940	.13760	.02370	.19910	.12300	-.04890	.00520	.01450	1.37660
.979	8.575	2.33290	.33980	.18770	.02370	.46280	.12800	-.04860	.00470	.01470	2.34270
.979	10.734	2.32230	.55180	.22180	.02450	.58340	.11510	-.04250	.00530	.01370	2.48790
.975	12.898	2.29560	.65750	.26840	.03210	.78110	.11580	-.03400	.00280	.01240	2.40050
.975	15.055	2.34490	.76380	.32900	.03770	.82300	.11920	-.03060	-.00270	.01240	2.32140
.979	17.295	2.34940	.85190	.38800	.03680	.92870	.11760	-.02650	.00340	.01090	2.19580
.991	21.546	2.31950	1.01040	.52110	.02810	1.14120	.11360	-.00460	-.01370	.00280	1.93980
GRADIENT		.00974	.06380	.00339	-.01128	.06607	-.00009	.00180	-.00081	-.00021	.47975

(RE7026) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = 2.000 ELEVON = -0.000
 AILRON = 5.000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.102	.052	2.29370	-.05430	.14260	.05640	-.05410	.14270	-.04570	.00620	.01110	-.38040
1.102	4.292	2.31970	.21610	.16270	.00150	.22760	.14600	-.04200	.00200	.01080	1.32820
1.100	8.589	2.32200	.44598	.21340	-.02790	.47280	.14420	-.03950	.00290	.01270	2.09220
1.099	10.751	2.32370	.50030	.24740	-.02440	.58680	.14040	-.04360	.00350	.01120	2.22450
1.101	12.933	2.32750	.65330	.29340	-.04320	.71220	.13750	-.03710	.00100	.01070	2.25050
1.092	15.113	2.35000	.77760	.35310	-.05440	.84280	.13820	-.04310	.00220	.01390	2.20220
1.092	17.347	2.35860	.88950	.42150	-.06540	.97470	.13710	-.03890	.00170	.01320	2.11050
1.092	21.636	2.33620	1.04750	.56150	-.05630	1.18080	.13570	-.03570	.00580	.01240	1.86550
1.102	GRADIENT	.00513	.06377	.00474	.01295	.06644	.00078	.00087	.00099	.00007	.40296

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.197	.053	2.28560	-.02850	.15120	.03890	-.02830	.15120	-.04310	.00390	.00940	-.18830
1.199	4.280	2.30300	.21370	.16570	-.01100	.22590	.14930	-.02420	.00240	.00890	1.28930
1.198	8.590	2.32930	.44530	.21440	-.04510	.47330	.14530	-.03220	.00210	.00840	2.08150
1.198	10.753	2.33300	.50170	.24910	-.06270	.58840	.14180	-.03890	.00290	.00930	2.21450
1.191	12.934	2.32600	.65080	.29530	-.06030	.71010	.13990	-.03630	.00850	.00870	2.23760
1.199	15.101	2.36320	.73660	.34960	-.06890	.82390	.13990	-.03960	.00700	.00920	2.16970
1.193	17.328	2.36610	.85940	.41420	-.07740	.94370	.13950	-.03480	.00310	.00850	2.07480
1.193	21.614	2.33560	1.00820	.54170	-.07570	1.13680	.13220	-.02110	.00680	.00740	1.86130
1.200	GRADIENT	.00413	.05744	.00344	.01183	.06019	.00845	.00448	.00036	.00021	.35043

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.400	.016	2.33790	-.01410	.14990	.01800	-.01400	.14990	-.05410	.00000	.00860	-.09380
1.393	4.226	2.33730	.19420	.15970	-.01910	.20550	.14509	-.03670	.00100	.00570	1.21630
1.397	8.517	2.31980	.40060	.20700	-.05080	.42590	.13920	-.02940	.00110	.00910	1.59810
1.397	10.674	2.33760	.50130	.23460	-.06530	.53610	.13770	-.03320	.00230	.00840	2.13630
1.397	12.850	2.29370	.60040	.27650	-.07750	.64690	.13610	-.02110	.00110	.00760	2.17100
1.393	15.034	2.35280	.69210	.32260	-.08510	.76230	.13250	-.02860	.00300	.00720	2.14540
1.393	17.235	2.35490	.78380	.37880	-.09270	.83380	.12960	-.03330	.00500	.00670	2.06890
1.393	21.521	2.29320	.93640	.50200	-.09500	1.05520	.12350	-.00170	.00690	.00750	1.85660
1.393	GRADIENT	.00181	.04948	.00233	.00884	.05214	.00116	.00413	.00024	.00021	.31121

(RE7027) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-894 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 076.6800 IN. XO
LREF = 474.8000 IN. YMRP = 0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 5.000 ELEVON = 5.000
AILRON = 5.000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 2054 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00.

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.567	.108	5.36240	-.05950	.05360	.02670	-.05940	.05370	-.11670	.01110	.01590	-.111020
.576	4.212	5.39310	.12900	.05610	.02590	.13270	.04640	-.11780	.01160	.01430	-.110000
.586	8.392	5.40360	.33210	.07810	.02320	.33960	.02680	-.11680	.01120	.01230	-.105530
.597	10.814	5.39570	.44310	.09390	.02140	.45280	.01140	-.11070	.01130	.01010	-.102030
.597	12.638	5.39410	.55640	.12120	.01860	.56940	-.08350	-.10810	.01070	.00880	-.105240
.594	14.761	5.38790	.66870	.17060	.01390	.69000	-.00540	-.10820	.01060	.00850	-.102610
.596	16.871	5.38530	.76640	.22760	.01190	.79850	-.00430	-.10500	.01100	.00750	-.103620
.596	21.085	5.38700	.93860	.36930	-.00150	1.02730	-.00030	-.11320	.01290	.00910	-.109950
.596	GRADIENT	.00748	.04590	.00061	-.00019	.04678	-.08178	-.08027	.00812	-.00039	-.100050

RUN NO. 196/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.899	.067	5.37970	-.08590	.07830	.05080	-.08580	.07840	-.12490	.01560	.01460	-.109570
.900	4.268	5.41900	.16290	.08810	.02410	.16900	.07570	-.12130	.01460	.01220	-.104850
.902	6.338	5.42400	.28250	.10760	.01300	.29270	.07550	-.11950	.01230	.00980	-.102410
.899	8.512	5.41980	.37450	.12870	.01440	.38940	.07180	-.10860	.01100	.00780	-.100700
.901	10.655	5.40980	.46900	.16810	.01250	.49140	.07358	-.10070	.00700	.00560	-.098030
.900	12.794	5.41250	.57110	.20600	.00980	.58890	.07750	-.09580	.00440	.00430	-.094400
.899	14.931	5.42420	.65400	.25400	.00300	.69740	.07690	-.10280	-.00080	.00280	-.091850
.900	17.065	5.45160	.73590	.30430	.00520	.78280	.07490	-.09580	-.00580	.00730	-.088500
.899	21.353	5.46300	.89980	.43190	.03060	.98600	.07810	-.07050	-.02000	.00240	-.080000
.902	GRADIENT	.00939	.05922	.00233	-.00635	.06065	-.00064	.00086	-.00010	-.00057	-.070090

RUN NO. 1954 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00.

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.979	.080	5.39670	-.08650	.12300	.07040	-.08650	.12310	-.11300	.01400	.01200	-.10460
.980	4.301	5.41590	.18120	.13490	.02520	.19080	.12090	-.10620	.01080	.00940	-.102410
.977	6.381	5.41610	.32600	.16440	.00940	.45530	.11780	-.10000	.00930	.00740	-.100950
.977	10.757	5.39530	.54720	.21920	-.00230	.57850	.11330	-.09550	.00770	.00630	-.097500
.978	12.894	5.39730	.64860	.26230	.03096	.69080	.11100	-.09270	.00360	.00640	-.094700
.977	15.044	5.46730	.74820	.31460	.03270	.80420	.10960	-.07840	-.00040	.00420	-.092130
.981	17.205	5.44360	.84300	.37950	-.03290	.91750	.11320	-.07130	-.00900	.00700	-.089510
.981	21.515	5.45000	1.01370	.51820	-.02820	1.13320	.11030	-.05910	-.01910	-.00700	-.085510
	GRADIENT	.00541	.06344	.00262	-.01071	.06559	-.00052	.00161	-.00076	-.00062	-.080050

(RE7027) 1 02 AUG 76

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 26901.0000 SQ. FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETER(C DATA

BETA = .000
 ATLON = 5.000
 ELEVON = 5.000
 BOFLAP = -7.170

RUN NO. 1854 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.098	.083	5.37020	-.06420	.14480	.05300	-.05400	.14480	-.10220	.01250	.00600	.37410
1.100	4.314	5.41698	.21288	.16430	.01440	.22450	.14780	-.09470	.00810	.00590	1.29330
1.099	8.610	5.41360	.43980	.21430	-.02470	.46700	.14600	-.09250	.00850	.00590	2.05290
1.098	10.782	5.39058	.54880	.24850	-.03310	.58490	.14160	-.08580	.00830	.00450	2.20320
1.098	12.932	5.349370	.65210	.29130	-.03930	.70080	.13790	-.08230	.00390	.00360	2.23910
1.099	15.092	5.41380	.75680	.34340	-.04620	.82010	.13450	-.08120	.00330	.00330	2.20410
1.099	17.254	5.44880	.85510	.40440	-.05180	.93650	.13250	-.07740	.00150	.00510	1.87320
1.102	21.578	5.47280	1.03730	.55380	-.06580	1.16830	.13350	-.08700	.00104	.00002	.39461
	GRADIENT	.01104	.06310	.09461	-.01219	.06588	.00069	.00177			

RUN NO. 1857 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.200	.078	5.40340	-.06360	.15840	.03750	-.03140	.15060	-.10280	.00780	.00520	.21620
1.198	4.301	5.42170	.21140	.16460	.01090	.22310	.14830	-.08990	.00370	.00380	1.28410
1.193	8.607	5.41880	.44350	.21380	-.04300	.47050	.14500	-.07950	.00150	.00300	2.07460
1.195	10.779	5.45390	.54490	.24780	-.04910	.58160	.14180	-.08330	.00170	.00340	2.15860
1.195	12.930	5.44420	.66310	.29200	-.05980	.70180	.13830	-.08500	.00020	.00380	2.23350
1.195	15.093	5.42960	.75778	.34530	-.06860	.82150	.13610	-.08340	.00520	.00360	2.19400
1.195	17.255	5.47470	.84740	.40810	-.07420	.92940	.13550	-.08420	.00150	.00440	2.09150
1.199	21.571	5.48660	1.03830	.54920	-.07970	1.13590	.13080	-.06560	.00190	.00400	1.86580
	GRADIENT	.00433	.05734	.00336	-.01146	.06026	.00052	.00305	.00097	.00033	.36281

RUN NO. 1784 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.402	.051	5.40930	-.01480	.15820	.01580	-.01470	.15020	-.09260	.00480	.00410	.10950
1.400	4.255	5.43730	.19300	.15970	-.02090	.20440	.14500	-.07670	.00170	.00470	1.20650
1.397	8.549	5.43520	.40190	.20230	-.05230	.42750	.14030	-.07680	.00300	.00110	1.99580
1.397	10.719	5.40490	.50110	.23490	-.06450	.53610	.13760	-.06840	.00270	.00110	2.17330
1.397	12.854	5.41250	.59560	.27440	-.07620	.64170	.13500	-.06990	.00200	.00200	2.25070
1.401	15.001	5.43930	.68270	.32020	-.08230	.74230	.13260	-.07530	.00560	.00260	2.13300
1.399	17.174	5.48320	.77450	.37530	-.08900	.83080	.12990	-.07530	.00400	.00310	2.06360
1.399	21.487	5.50190	.93270	.49820	-.09500	1.06040	.12190	-.06570	.00190	.00330	1.87810
	GRADIENT	.00554	.04943	.00226	-.00873	.05212	.00124	.00378	.00074	.00052	.31869

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = 7.500 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.8800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.8800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0390

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.598	.141	-4.90580	-.04170	.05650	.02810	-.04168	.05660	.04770	-.00080	.03290	-.73780
.596	4.205	-4.98180	.14400	.06800	.02710	.14800	.04930	.04330	.00030	.03680	2.33840
.595	8.370	-4.90310	.34970	.07980	.02400	.35760	.02808	.04040	.00038	.04190	4.33840
.595	10.480	-4.88820	.45850	.09860	.02240	.46860	.03630	.03630	.00060	.04560	4.64910
.595	12.588	-4.85930	.57190	.12800	.02050	.58600	.04368	.03810	.00080	.04670	4.48640
.597	14.684	-4.85330	.66300	.17380	.02030	.68640	.08000	.04680	-.00208	.03900	3.81600
.595	16.775	-4.86050	.75430	.23298	.01630	.78950	.09530	.05210	-.00280	.03630	3.23880
.598	21.015	-4.88840	.93930	.37078	.00700	1.00970	.09220	.06060	-.04360	.03200	2.59390
	GRADIENT	-.00369	.04570	.00086	-.00025	.04666	-.00188	-.00108	.00042	.00098	-.77122

RUN NO. 211/ 0 RUN NO. 211/ 0

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.901	.124	-4.96580	-.03570	.07950	.03520	-.03550	.07880	.05130	.00340	.02990	-.45460
.901	4.282	-4.93750	.20280	.09430	.01470	.20938	.07890	.04750	.00220	.02580	2.15110
.901	6.396	-4.94070	.31070	.11380	.00780	.32440	.07800	.05350	.00368	.02850	2.74890
.903	8.516	-4.93050	.41210	.14110	.00280	.42840	.07830	.05438	.00350	.02940	2.91950
.897	10.651	-4.91050	.50480	.17180	.00300	.52780	.07558	.05498	.00370	.03400	2.98680
.900	12.764	-4.92350	.58940	.21640	.00180	.62260	.08080	.06650	.00420	.03000	2.78380
.900	14.897	-4.92260	.67590	.26380	-.00230	.72180	.08420	.06838	.00480	.03890	2.56200
.900	17.032	-4.93260	.78170	.31970	-.00680	.82200	.08250	.08780	.00740	.02880	2.38300
.898	21.320	-4.96930	.89310	.43390	.02700	.98860	.07998	.07660	.01390	.02500	2.05570
	GRADIENT	.00442	.05738	.00380	-.00805	.05887	-.00067	-.00091	-.00029	-.00002	-.62688

RUN NO. 281/ 0 RUN NO. 281/ 0

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.199	.115	-4.98360	-.01200	.15240	.03150	-.01170	.15250	.07390	-.00230	.02890	-.07890
.203	4.280	-4.95050	.22840	.16770	-.01890	.24130	.15028	.05800	-.00340	.02580	1.36750
.198	8.571	-4.94330	.46190	.21740	-.05130	.48920	.14610	.07020	.00028	.02930	2.12530
.200	10.725	-4.92860	.57150	.25530	-.08180	.60930	.14540	.06230	-.00820	.03040	2.23020
.195	12.886	-4.92530	.68050	.30210	-.07090	.73070	.14270	.06380	-.00030	.03080	2.28270
.199	15.041	-4.93890	.78790	.35770	-.08280	.85370	.14100	.06438	.00000	.02580	2.20230
.199	17.221	-4.94170	.87790	.41880	-.08630	.96770	.14040	.05780	.00060	.02480	2.09380
.198	21.544	-4.96130	1.01670	.54210	-.07710	1.14470	.13590	.05410	.01410	.02870	1.87540
	GRADIENT	.00780	.05795	.00367	-.01210	.06074	-.00055	-.00454	-.00026	-.00000	-.34722

1RE70281 (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = 7.500 ECLAP = -7.170

TABLED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 2204 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.402	.073	-4.98790	.00110	.15298	.01130	.00430	.15298	.08270	-.00310	.01980	.00700
1.402	4.236	-4.93960	.20730	.16360	-.02538	.21880	.14780	.05210	-.00470	.02370	1.28750
1.398	8.503	-4.95870	.41160	.20430	-.05478	.43730	.14120	.07530	.00870	.02100	2.01450
1.401	10.690	-4.96430	.51100	.23750	-.06710	.54610	.13690	.07690	.00210	.02100	2.15200
1.400	12.801	-4.93120	.60750	.27720	-.07840	.63380	.13570	.09540	-.00010	.02550	2.19170
1.399	14.958	-4.95440	.70280	.32560	-.08810	.78310	.13500	.07570	.00240	.02000	2.15840
1.398	17.132	-4.95440	.79200	.37990	-.09500	.86880	.12980	.06530	.00510	.02100	2.08460
1.398	21.478	-4.95600	.94700	.50480	-.09850	1.06600	.12300	.05130	.01330	.02300	1.87610
1.398		.01177	.04953	.00257	-.00879	.05225	-.00123	-.00755	-.00038	.00022	.30280

ARC 11-97-87-094 0A161 ORBITER

1RE70291 (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = 7.500 ECLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 2094 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.595	.105	-1.85180	-.05038	.05890	.03808	-.05610	.05890	-.00890	.00340	.03050	.00330
.597	4.181	-1.82350	.13690	.05200	.02960	.14110	.05180	-.00850	.00460	.03310	2.23860
.597	8.343	-1.81870	.34290	.08080	.02410	.35100	.03020	-.01050	.00420	.03610	4.24450
.595	10.450	-1.81830	.44940	.09880	.02350	.45990	.01560	-.01010	.00450	.03620	4.55020
.595	12.577	-1.80450	.56400	.12750	.02320	.57820	.00160	-.01350	.00430	.03500	4.42440
.595	14.676	-1.81050	.65780	.17480	.02250	.68060	.00260	-.00370	.00170	.03320	3.76500
.596	16.803	-1.84160	.75170	.23410	.02250	.78738	.00680	-.00160	.00120	.02950	3.21160
.597	21.061	-1.84160	.95610	.38180	.00430	1.02940	.01270	.00750	.00110	.02750	2.50440
.597		.00594	.04593	.00076	-.00010	.04691	-.00177	-.00125	.00029	.00054	-.5132

(RE70290) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SOLFT. XMRP = 1078.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BPEF = 935.6800 IN. ZMRP = 375.3000 IN. ZQ
SCALE = .0300

PARAMETRIC DATA

BETA =
ALURON =
-2.000 ELEVON = .000
7.500 BDFLAP = -7.170

RUN NO. 212/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.900	.058	-1.83560	-.05540	.08200	.04460	-.05530	.08210	-.00690	.00930	.02680	-.67540
.901	4.255	-1.85520	.19340	.09560	.01850	.28000	.08090	.00170	.00860	.02720	2.02410
.902	6.372	-1.85230	.30300	.11290	.00970	.31360	.07860	-.00620	.00680	.02450	2.68410
.903	8.491	-1.83960	.43070	.14050	.00680	.41710	.07980	.00210	.00730	.02490	2.85260
.899	10.624	-1.83310	.48550	.17170	.00820	.50880	.07920	.00770	.00840	.02320	2.82800
.902	12.755	-1.82750	.57740	.21330	.00720	.61020	.08050	.01230	.00540	.02490	2.70710
.903	14.874	-1.82720	.67300	.26630	-.00330	.71880	.08470	.01220	.00230	.02600	2.52670
.901	17.057	-1.88510	.76010	.32240	-.00190	.82120	.08530	.01840	.00330	.02460	2.35740
.903	21.365	-1.85940	.83640	.44330	.02260	.99640	.08630	.02170	.00390	.01990	2.02800
GRADIENT		-.00467	.05929	.00324	-.00622	.06084	-.00029	.00205	-.00017	.00010	64329

RUN NO. 222/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.200	.019	-1.84000	-.01870	.15340	.03470	-.01850	.15350	.08910	.00090	.02150	-.12160
1.199	4.250	-1.86980	.22660	.17000	-.01760	.23860	.15270	.02430	.00100	.02210	1.33280
1.201	8.549	-1.84470	.45580	.21750	-.05140	.48300	.14730	.02490	.00040	.02210	2.09540
1.193	10.725	-1.81770	.56730	.25490	-.06060	.60500	.14480	.01620	.00060	.02490	2.22650
1.195	12.872	-1.81950	.67350	.30130	-.06760	.72370	.14360	.02670	.00100	.02410	2.23540
1.199	15.027	-1.85560	.77270	.35690	-.07570	.83850	.14340	.02670	-.00040	.02270	2.17140
1.194	17.244	-1.89690	.86950	.41930	-.08360	.95480	.14270	.02330	-.00100	.02100	2.07350
1.193	21.584	-1.87640	1.01590	.54970	-.07830	1.14690	.13740	.01790	.00460	.02270	1.94830
GRADIENT		-.00709	.05837	.00395	-.01245	.06118	-.00019	.00362	.00802	.00014	.34610

RUN NO. 219/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.404	.051	-1.89200	-.00290	.15290	.01400	-.02280	.15290	.02110	-.00050	.01600	-.01900
1.402	4.218	-1.88080	.20270	.16310	-.02310	.21410	.14780	.03160	.00020	.01640	1.24270
1.400	8.492	-1.83450	.40700	.20440	-.05310	.43270	.14200	.01940	-.00150	.01650	1.99150
1.398	10.666	-1.82580	.51020	.23810	-.06840	.54540	.13970	.02360	-.00120	.01620	2.14260
1.399	12.799	-1.81640	.60710	.27860	-.07970	.65370	.13720	.02320	-.00150	.01570	2.17890
1.400	14.940	-1.84610	.69660	.32450	-.08750	.75660	.13390	.02150	-.00060	.01800	2.14850
1.402	17.159	-1.91580	.78920	.38130	-.09560	.86640	.13150	.03340	-.00130	.01790	2.06860
1.399	21.511	-1.89460	.94620	.50860	-.09850	1.06880	.12630	.02760	.00350	.01760	1.86230
GRADIENT		.00269	.04934	.00245	-.00890	.05205	-.00122	.00252	.09017	.00010	.50275

(RE7030) (02 AUG 78)

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
ALLRON =

PARAMETRIC DATA

.000 ELEVON = .000
7.500 BOFLAP = -7.170

RUN NO. 2080 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.596	.071	.20980	-.05680	.05930	.03080	-.05640	.05940	-.04000	.00620	.02900	-.95250
.597	4.173	.28290	.13890	.06130	.03930	.13500	.05180	-.04420	.00700	.03090	2.12910
.598	5.242	.22690	.23220	.06830	.02800	.23820	.04260	-.04320	.00730	.03170	3.40060
.599	8.338	.23680	.34070	.08050	.02470	.34880	.03840	-.04650	.00740	.03240	4.22440
.596	10.432	.23930	.44440	.09190	.02340	.45480	.01580	-.04010	.00760	.03330	4.54170
.597	12.527	.23370	.55520	.12530	.02330	.56910	.00190	-.04550	.00720	.03350	4.43080
.598	14.642	.24740	.64830	.17200	.02230	.67070	.00250	-.03540	.00450	.02810	3.76990
.599	16.766	.23810	.74590	.23040	.01820	.78070	.00540	-.03220	.00430	.02490	3.23790
.597	21.019	.22850	.96160	.38270	.00160	1.03490	.01230	-.03120	.00520	.02520	2.51310
.597	25.185	.21690	1.08500	.50980	.03930	1.18070	.00820	-.00290	.00170	.01170	2.08890
.597	GRADIENT	.00319	.04568	.00054	-.00012	.04665	-.00185	-.00102	.00020	.00046	.75122

RUN NO. 2137 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.898	.044	.22400	-.06920	.08330	.04990	-.06920	.08340	-.04330	.01080	.02550	-.83080
.900	4.253	.22950	.18440	.09510	.02180	.19100	.08110	-.04080	.01010	.02520	1.94030
.902	6.371	.22950	.30150	.11560	.00930	.31260	.06140	-.03290	.00920	.02300	2.60900
.896	8.491	.24180	.39640	.13850	.00790	.41250	.07840	-.03550	.00830	.02250	2.86240
.901	10.641	.23750	.49520	.17560	.00590	.51910	.08120	-.02750	.00630	.02200	2.81940
.902	12.748	.22430	.57030	.21150	.00970	.60300	.08050	-.01760	.00530	.02160	2.69810
.903	14.893	.24140	.67010	.26690	.00000	.71600	.08480	-.01760	.00230	.02230	2.51980
.902	17.037	.23840	.76110	.32400	-.00320	.82260	.09580	-.01450	.00080	.02180	2.34660
.899	21.304	.22150	.88710	.44040	.02510	.95650	.08800	.00370	.00520	.01800	2.01440
.899	25.478	.19600	.91390	.53490	.10200	1.05500	.08980	.03470	.00350	.00350	1.70840
.899	GRADIENT	.00131	.06025	.00280	-.00668	.06182	-.00055	.00055	-.00019	-.00007	.65835

RUN NO. 2234 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.200	.049	.21090	-.02240	.15460	.03580	-.02220	.15460	-.01740	.00370	.01890	-.14470
1.196	4.274	.22820	.22300	.17020	-.01540	.23500	.15320	-.01810	.00080	.01890	1.30970
1.195	6.401	.22270	.34260	.19050	-.03640	.36170	.15110	-.00650	.00100	.01920	1.78640
1.193	8.570	.23560	.45420	.21730	-.04970	.48150	.14720	-.00670	.00060	.01850	2.09030
1.193	10.738	.23350	.56440	.25350	-.05920	.60170	.14260	-.00940	.00140	.02120	2.22660
1.196	12.898	.23390	.67330	.30050	-.06760	.72330	.14300	-.01330	.00080	.02030	2.24070
1.195	15.059	.24170	.76710	.35450	-.07340	.83290	.14310	-.01130	.00110	.01850	2.16380
1.195	17.223	.24750	.86410	.41770	-.07930	.94940	.14310	-.00250	.00180	.01760	2.06370
1.200	21.530	.22450	.96110	.54900	-.07850	1.14420	.13770	.00040	.00270	.01760	1.85010
1.195	25.753	.21270	1.11020	.67320	-.08520	1.29300	.13730	.00330	.00480	.01400	1.63450
1.193	GRADIENT	.00409	.05807	.00369	-.01204	.06086	-.00033	-.00017	-.00069	.00000	.34416

ARC 11-97-87-094 OAHB: ORBITER.

REFERENCE DATA:

3REF	=	2690.0000	SQ.FT.	XMRP	=	1076.6800	IN.	X0
LREF	=	474.8200	IN.	YMRP	=	.0000	IN.	Y0
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	Z0
SCALE	=	.0300						

BETA	=	.000	ELEVON	=	.000
ALIRON	=	7.500	BEFLAP	=	-7.170

PARAMETRIC DATA

RUN. NO.	218/ 0:	RN/L = 4.24	GRADIENT INTERVAL = -5.00/ 5.00
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[illegible]

REFERENCE DATA

SRCP	=	2690.0000	SO.FT.	XVRP	=	1076.6900	IN.	XO
LREF	=	474.8000	IN.	YVRP	=	.0800	IN.	YC
BRF	=	936.6900	IN.	ZVRP	=	375.0000	IN.	ZO
SCALE	=	.0300						

BETA	=	2.000	ELEVEN	=	.000
ALFIRON	=	7.500	BOFLAP	=	-7.170

PARAMETRIC DATA

REC-111 25-28-60 040191 081131

REF 70312 (02 AUG 75)

RUN NO. 207/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.070	2.29780	-.0930	.09850	.02840	-.05800	.05850	-.07210	.00910	.02750	-.99400
.584	.184	2.31760	.13190	.06220	.02750	.13610	.05240	-.08060	.00940	.02840	2.11530
.595	.8.357	2.33970	.33970	.08050	.02540	.34680	.03050	-.08060	.00940	.02840	4.20580
.594	10.462	2.34420	.46240	.09910	.01960	.46090	.01570	-.07780	.00990	.02760	4.54350
.595	12.622	2.33980	.58470	.12770	.01910	.57990	.00120	-.07860	.01010	.02790	4.42090
.595	14.759	2.32250	.68160	.17660	.01690	.68460	.00170	-.07180	.00800	.02750	3.75820
.595	15.996	2.31730	.75920	.23450	.01390	.78460	.00360	-.06890	.00760	.02420	3.23750
.594	21.119	2.30420	.9410	.38650	-.00240	1.04790	.00960	-.07320	.00870	.02440	2.52010
GRAND TOTAL			0.619	.00190	-.00022	.04718	-.00148	-.00207	.00007	.00022	-.75683

(RET031) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = 7.500 BDFLAP = -7.170

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XC
 LREF = 474.8000 IN. YMRP = .0000 IN. YC
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 214/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.902	.054	2.29100	-.07650	.08290	.05190	-.07650	.08290	-.07760	.01170	.02440	-.92460
.902	.054	2.30000	.17640	.09430	.02200	.18290	.08090	-.07850	.01109	.02320	1.67140
.901	6.389	2.3180	.29660	.11420	.00940	.30750	.08050	-.07260	.00890	.02170	2.59706
.900	8.517	2.33510	.39790	.14080	.00650	.41440	.02030	-.06410	.00860	.02020	2.82610
.901	10.651	2.33320	.49630	.17220	.00570	.50870	.07950	-.05570	.00810	.01790	2.81760
.901	12.807	2.30590	.57740	.21330	.00690	.61040	.08060	-.05210	.00410	.01820	2.89930
.901	14.974	2.35560	.68260	.27210	.00310	.72780	.08740	-.04990	-.00020	.02010	2.50180
.905	17.167	2.35910	.76860	.32890	-.00530	.83140	.08740	-.04270	-.00560	.01930	2.33710
.904	21.412	2.33330	.88330	.44270	.02850	.98860	.08780	-.02190	-.01410	.01280	2.06570
GRADIENT		.01165	.00271	.00711	-.00046	.00024	-.00024	-.00024	-.00017	-.00029	.66459

RUN NO. 224/ 0 RN/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.197	.064	2.27580	-.02390	.15560	.03630	-.02370	.15560	-.04370	.00640	.01610	-.15350
1.198	.064	2.33980	.21910	.17140	-.01420	.23130	.15460	-.04850	.00190	.01560	1.27810
1.198	8.593	2.33570	.45310	.21650	-.04950	.48070	.14830	-.03850	.00700	.01530	2.07380
1.195	10.758	2.33380	.56090	.25360	-.05760	.59840	.14440	-.04080	.00750	.01640	2.21210
1.195	12.938	2.30990	.66980	.30020	-.06690	.72010	.14260	-.03980	.00800	.01610	2.29170
1.197	15.108	2.36590	.76800	.35490	-.07370	.83390	.14240	-.04080	.00060	.01620	2.16420
1.193	17.334	2.37190	.86490	.41930	-.08180	.95020	.14160	-.03670	-.00450	.01450	2.06780
1.196	21.623	2.34330	.94530	.54760	-.07950	1.14970	.13490	-.02490	.00850	.01300	1.85410
GRADIENT		.01455	.00375	.00198	-.00024	.00049	-.00024	-.00114	-.00107	-.00012	.33961

RUN NO. 217/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.193	.017	2.31550	-.00970	.15380	.01610	-.00970	.15380	-.04870	.00180	.01160	-.06310
1.192	.017	2.31700	.19820	.16420	-.02160	.20960	.14320	-.03190	-.00320	.01060	1.25580
1.195	8.514	2.33200	.40530	.20440	-.05310	.43110	.14220	-.03710	.00280	.01060	1.98270
1.197	10.670	2.32230	.53690	.23830	-.06850	.54250	.13840	-.03090	.00250	.01160	2.12750
1.195	12.843	2.30620	.60630	.28010	-.08120	.65340	.13470	-.02830	.00260	.01200	2.18430
1.195	15.011	2.34450	.70000	.32710	-.08960	.75080	.13470	-.02650	.00370	.01200	2.13980
1.193	17.234	2.35630	.79220	.38330	-.09660	.86930	.13200	-.02580	.00160	.01160	2.05160
1.193	21.527	2.34400	.94500	.50970	-.09900	1.06710	.12700	-.02760	-.01090	.01210	1.85510
GRADIENT		.00036	.00247	.00218	-.00105	.00399	-.00105	-.00399	-.00048	-.00024	.30187

(RE7032) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-034)

ARC 11-97-87-034 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0800 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0600 IN. Z0
 SCALE = .0380

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILERON = 7.500 BDFEAP = -7.170

RUN NO. 206/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.587	.111	5.37160	-.05120	.05990	.02180	-.05100	.05600	-.13090	.01320	.03560	-.91550
.597	4.213	5.39950	.13520	.05980	.02130	.14010	.04910	-.13010	.01460	.02470	2.29900
.596	6.297	5.40680	.23740	.05980	.01950	.24330	.04080	-.13390	.01400	.02440	3.52850
.595	8.359	5.41240	.34060	.07940	.01860	.34850	.02880	-.13230	.01410	.02290	4.29090
.596	10.511	5.40820	.45190	.09840	.01610	.45220	.01430	-.13040	.01390	.02870	4.59210
.597	12.635	5.40920	.56370	.12560	.01330	.57750	-.00070	-.12910	.01310	.01950	4.49710
.596	14.758	5.40100	.67140	.17320	.00860	.69340	-.00350	-.12590	.01280	.01870	3.87630
.596	16.867	5.39790	.77030	.23090	.00600	.80410	-.00250	-.12330	.01260	.01820	3.35600
.596	21.082	5.40620	.86120	.37280	-.00520	1.03100	.00200	-.12950	.01450	.01800	2.57870
GRADIENT		.00580	.04568	.00080	.00002	.04658	-.00168	.00020	.00034	-.00022	.78367

RUN NO. 215/ 0 RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.902	.065	5.40050	-.08750	.08420	.05180	-.08740	.08430	-.13260	.01670	.02230	-1.03970
.901	4.273	5.42290	.17080	.09440	.01950	.17730	.08140	-.12900	.01640	.01990	1.88980
.899	6.402	5.42850	.28920	.11230	.00800	.39000	.07940	-.12680	.01420	.01780	2.57470
.904	8.530	5.43050	.39140	.13720	.00500	.40740	.07760	-.12080	.01230	.01580	2.85350
.900	10.678	5.41350	.49420	.17060	.00330	.50740	.07790	-.10950	.00890	.01260	2.83880
.902	12.809	5.42250	.57230	.21340	.00050	.60540	.08130	-.11160	.00450	.01390	2.68120
.903	14.946	5.43360	.66510	.26100	-.00510	.70990	.08060	-.10360	.00120	.01520	2.54860
.897	17.094	5.45730	.75930	.31900	-.00260	.81950	.08180	-.09830	.00570	.01400	2.37990
.902	21.387	5.47840	.89570	.43930	.02880	.99520	.08210	-.07930	-.02030	.00570	2.04120
GRADIENT		.00532	.06139	.00242	-.00768	.06294	-.00069	.00086	-.00097	-.00057	.67700

RUN NO. 225/ 0 RM/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.197	.077	5.39410	-.02900	.15490	.03590	-.02880	.15500	-.10010	.01050	.01240	-.18710
1.199	4.298	5.42780	.21420	.16910	-.01280	.28630	.15260	-.09450	.00550	.01130	1.26700
1.191	6.609	5.42830	.45090	.21860	-.04730	.47850	.14670	-.08720	.00190	.00950	2.06250
1.195	10.782	5.40950	.55600	.25440	-.05570	.59380	.14590	-.08750	.00280	.01100	2.18530
1.196	12.933	5.42030	.66030	.29780	-.06480	.71020	.14240	-.08820	.00010	.01000	2.21730
1.195	15.037	5.43610	.76490	.35110	-.07420	.82990	.13970	-.09520	-.00310	.01080	2.17880
1.195	17.255	5.47000	.95100	.40940	-.08650	.93420	.13850	-.09150	-.00730	.01020	2.07890
1.200	21.581	5.49310	1.01760	.54680	-.08470	1.14740	.13420	-.06710	-.01860	.01070	1.86090
1.195	GRADIENT	.00798	.05762	.00336	-.01154	.06044	-.00057	.00133	-.00118	-.00026	.34453

TABULATED DATA - 0A161 (ARC 11-87-87-084)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XZ
LREF = 474.8000 IN. YMRP = .0000 IN. YZ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = 5.000 ELEVON = .000
AILRON = 7.500 BDFLAP = -7.770

PARAMETRIC DATA

RUN NO. 216/ 0 RWL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.397	.051	5.42770	-.01120	.01440	-.01110	.15370	-.10440	.00520	.00890	-.07320
1.400	4.247	5.43220	.19510	.02310	.20670	.14900	-.08320	.00160	.00670	1.18990
1.397	8.531	5.45630	.40340	-.05370	.42940	.14340	-.08550	-.00410	.00630	1.96240
1.397	12.703	5.42240	.50370	.06710	.53930	.14090	-.07630	-.00380	.00610	2.11150
1.395	12.845	5.41860	.60100	-.07990	.64790	.13780	-.07410	-.00470	.00670	2.15660
1.395	14.997	5.44860	.69270	-.08860	.75130	.13510	-.08370	-.00380	.00710	2.12970
1.395	17.160	5.46660	.77950	-.09280	.85670	.13230	-.08620	-.01040	.00800	2.05590
1.398	21.481	5.49870	.94050	-.09940	1.06020	.12540	-.06680	-.02080	.00850	1.85290
1.398	GRADIENT	.00107	.04917	-.00894	.05191	-.00112	-.00505	-.00086	-.00052	.30106

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XZ
LREF = 474.8000 IN. YMRP = .0000 IN. YZ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = 10.000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 252/ 0 RWL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.395	.147	-4.90550	-.04310	.02960	-.04280	.06220	.03590	.02160	.04340	-.69370
1.397	4.211	-4.91050	.14370	.02750	.14610	.05490	-.02740	.00330	.04770	2.19050
1.397	8.375	-4.69700	.34510	.02480	.35380	.03390	.02670	.00320	.03330	4.05610
1.397	10.584	-4.89280	.45380	.02370	.46610	.01950	.02090	.00350	.03710	4.36990
1.397	12.535	-4.85980	.56330	.02180	.58390	.00680	.02210	.00340	.03650	4.24530
1.397	14.690	-4.84570	.65790	.02350	.68170	.00630	.03210	.00040	.03060	3.67670
1.397	16.782	-4.85340	.74200	.02090	.77820	.00170	.03950	-.00070	.04540	3.15890
1.397	21.325	-4.88240	.93050	.01250	1.00230	.01390	.04750	-.00210	.04110	2.49780
1.397	GRADIENT	-.00123	.00596	-.00032	.04700	-.00180	-.00309	.00342	.00105	.70366

(RE70331 (02 AUG 76)

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AHLRON = 10.000 BOFLAP = -7.170

RUN NO. 251 / 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.900	.111	-4.92430	-.04590	.08860	.04040	-.04560	.08870	.03360	.00610	.03920	-.58700
.899	4.275	-4.93190	.19890	.10020	.01400	.20590	.08510	.03550	.00570	.03960	1.96460
.898	6.392	-4.92690	.31270	.12070	.00480	.32420	.08510	.03910	.00510	.03710	2.59070
.897	8.513	-4.92670	.41740	.14890	-.00100	.43490	.08530	.04700	.00560	.03740	2.88530
.896	10.645	-4.91270	.51770	.18370	-.00540	.52770	.08490	.04460	.00520	.03730	2.81750
.895	12.761	-4.91330	.53550	.22390	-.00380	.63120	.08650	.05710	.00470	.03570	2.66940
.894	14.899	-4.91640	.58420	.27540	-.00500	.73200	.09020	.06690	.00490	.03720	2.48440
.893	17.037	-4.92650	.77340	.33280	-.00540	.83690	.09160	.06280	.00800	.03540	2.32750
.892	21.322	-4.96400	.89300	.44390	.02590	.94290	.09020	.07810	.01320	.03080	2.09510
.901	GRADIENT	-.00183	.05877	.00279	-.00634	.06440	-.00086	.00046	-.00010	.00010	.69078

RUN NO. 241 / 0 RUN/L = 4.24 GRADIENT INTERVAL = -5.384 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.980	.126	-4.94260	-.04770	.13400	.05390	-.04740	.13410	.04160	.00540	.04340	-.35580
.981	4.298	-4.94030	.22020	.15030	.00670	.23080	.13340	.03970	.00570	.04360	1.46500
.982	8.572	-4.91760	.47210	.20530	-.02850	.49740	.13260	.03910	.00640	.04240	2.29960
.983	10.715	-4.90330	.58880	.24070	-.04260	.62330	.12700	.04260	.00380	.04120	2.44680
.984	12.860	-4.89500	.69620	.28810	-.05100	.74290	.12600	.04410	.00180	.04160	2.41620
.985	15.014	-4.91830	.79030	.34060	-.05090	.85160	.12420	.05780	.00120	.03960	2.32040
.986	17.167	-4.93290	.87450	.40410	-.04690	.94490	.12880	.05410	.00540	.03910	2.18390
.987	21.472	-4.94560	1.01010	.53010	-.02850	1.13400	.12360	.06260	.00990	.03160	1.90630
.981	GRADIENT	.00041	.06422	.00391	-.01131	.06569	-.00017	.00046	.00007	.00045	.43648

RUN NO. 240 / 0 RUN/L = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.1099	.113	-4.93990	-.02780	.15510	.04140	-.02790	.15610	.04670	.00130	.04100	-.17820
.1098	4.303	-4.94030	.24140	.17640	-.01220	.25390	.15780	.04530	.00200	.04070	1.36950
.1097	8.579	-4.91530	.46350	.22940	-.04610	.56940	.15810	.04540	.00340	.04180	2.08510
.1096	10.731	-4.90570	.58750	.26560	-.05210	.62670	.15160	.04250	.00260	.04000	2.21170
.1095	12.883	-4.90580	.69130	.31030	-.05700	.74310	.14930	.05220	.00190	.03920	2.28810
.1094	15.052	-4.91610	.79070	.35440	-.06010	.86850	.14750	.05800	.00100	.03820	2.18390
.1093	17.218	-4.92680	.89830	.43240	-.06170	.98660	.14710	.06590	.00910	.03340	2.07760
.1092	21.539	-4.94350	1.04720	.55840	-.06790	1.18280	.14430	.05890	.00820	.03160	1.84230
.1100	GRADIENT	-.00048	.06425	.00484	-.01279	.06716	.00041	.00010	.00017	-.00007	.36915

18E70331 (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 SPEF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = -5.000 ELEVON = .000
 ATLRON = 10.080 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 231 / 0 RVAL = 4.25 GRADIENT INTERVAL = -5.00 / 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.199	.110	-4.96370	-.01440	.15830	.03040	-.01910	.15840	.06690	-.00070	.03340	-.09100
1.197	4.282	-4.95040	.23150	.17430	-.02210	.24390	.15650	.05860	-.00160	.03400	1.32850
1.195	8.562	-4.93370	.46530	.22420	-.05630	.49350	.15250	.05660	.00110	.03580	2.07490
1.193	10.721	-4.93280	.57650	.26330	-.06700	.61540	.15190	.05810	.00170	.03720	2.18930
1.191	12.881	-4.91530	.63340	.31000	-.07490	.73530	.14990	.05490	.00080	.03690	2.20430
1.189	15.057	-4.94290	.79370	.36730	-.08680	.86190	.14890	.06830	.00070	.03290	2.16090
1.196	17.215	-4.93760	.88160	.42740	-.09660	.96850	.14730	.06520	.00280	.03500	2.16580
1.195	21.539	-4.95700	1.01940	.55070	-.08040	1.15040	.13900	.05280	.01260	.03300	1.85310
	GRADIENT	.00079	.05893	.00383	-.01268	.06183	-.00046	-.00095	.00002	.03674	-.3-028

RUN NO. 230 / 0 RVAL = 4.24 GRADIENT INTERVAL = -5.00 / 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.398	.073	-4.99360	-.00150	.15810	.01090	-.00130	.15810	.07680	-.00180	.02450	-.00960
1.395	4.231	-4.97090	.20530	.16810	-.02670	.21720	.15240	.07900	-.00180	.02570	1.22170
1.393	8.495	-4.94630	.41100	.20960	-.05670	.43790	.14660	.06790	.00050	.02560	1.96090
1.395	10.645	-4.93720	.51230	.24310	-.07000	.54810	.14470	.06800	.00030	.02600	2.70910
1.397	12.794	-4.92180	.61020	.28310	-.08230	.65780	.14100	.06340	-.00060	.02340	2.19530
1.397	14.958	-4.91220	.70780	.33310	-.09320	.76980	.13910	.05410	-.00010	.02440	2.12530
1.395	17.119	-4.94220	.79520	.39570	-.09370	.87380	.13550	.06370	.00430	.02560	2.05640
1.395	21.463	-4.94870	.95100	.51130	-.10120	1.07210	.12790	.04880	.01110	.02550	1.85000
	GRADIENT	.00305	.04974	.00241	-.00994	.05296	-.00137	-.00212	.00800	.00029	.29640

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(RE7034) (02 AUG 76)

ARC 11-97-87-094-0A161 ORBITER

REFERENCE DATA

SPEF = 2699.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -2.000 ELEVON = .000
AILRON = 10.000 BOFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.068	-1.8120	-.05240	.02980	-.05230	.06490	-.01920	.00570	.04100	-.80810
.598	.133	-1.8160	.13750	.02890	.14200	.05730	-.02550	.00669	.04390	2.03520
.599	.198	-1.8200	.27100	.02800	.28470	.04930	-.05310	.00710	.04710	3.93210
.600	.263	-1.8240	.40450	.02710	.43880	.04170	-.06680	.00760	.05070	4.27070
.601	.328	-1.8280	.53800	.02620	.57230	.03410	-.08050	.00810	.05380	4.20210
.602	.393	-1.8320	.67150	.02530	.70580	.02650	-.09420	.00860	.05690	3.63780
.603	.458	-1.8360	.80500	.02440	.83930	.01890	-.10790	.00910	.06000	3.11500
.604	.523	-1.8400	.93850	.02350	.97280	.01130	-.12160	.00960	.06310	2.45920
.605	.588	-1.8440	1.07200	.02260	1.10630	.00370	-.13530	.01010	.06620	.69314

RUN NO. 253/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.901	.084	-1.85760	-.05330	.03030	-.05320	.09180	-.02410	.01160	.03550	-.71230
.902	.149	-1.83190	.13750	.01900	.19940	.08880	-.02030	.01050	.03580	1.83310
.903	.214	-1.82600	.27100	.00700	.31730	.08900	-.01460	.00980	.03300	2.49170
.904	.279	-1.82010	.40450	.00500	.43520	.08610	-.00870	.00970	.03210	2.75540
.905	.344	-1.81420	.53800	.00300	.55310	.08320	-.00280	.00970	.03100	2.72360
.906	.409	-1.80830	.67150	.00100	.67100	.08030	.00080	.00970	.03020	2.62880
.907	.474	-1.80240	.80500	.00000	.78900	.07740	.00000	.00970	.03150	2.46830
.908	.539	-1.79650	.93850	.00000	.90700	.07450	.00000	.00970	.03150	2.30030
.909	.604	-1.79060	1.07200	.00000	1.02500	.07160	.00000	.00970	.02490	1.98450
.910	.669	-1.78470	1.20550	.00000	1.14300	.06870	.00000	.00970	.02000	.61139

RUN NO. 254/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.911	.092	-1.82550	-.06790	.04400	-.06780	.13660	-.01360	.00970	.05920	-.49740
.912	.157	-1.83200	.13750	.01310	.24670	.13440	-.01010	.00970	.05920	1.37210
.913	.222	-1.81440	.27100	.00560	.40620	.13190	-.01020	.00970	.05720	2.27510
.914	.287	-1.79680	.40450	.00300	.56570	.12940	-.00500	.00970	.05490	2.40450
.915	.352	-1.77920	.53800	.00100	.72520	.12690	-.00090	.00970	.05260	2.24650
.916	.417	-1.76160	.67150	.00000	.88470	.12440	.00080	.00970	.05030	2.24530
.917	.482	-1.74400	.80500	.00000	1.04420	.12190	.00080	.00970	.04800	2.14500
.918	.547	-1.72640	.93850	.00000	1.20370	.11940	.00080	.00970	.04570	1.98380
.919	.612	-1.70880	1.07200	.00000	1.36320	.11690	.00080	.00970	.04340	.61367

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AIRRON = 10.000 BOFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER

REFERENCE DATA

SPEC = 2597.0000 SQ. FT. XMRP = 1076.6800 IN. X0
REF = 474.8000 IN. YMRP = .0000 IN. Y0
REF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 239/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	CL	CD	CN	CLM	CA	CY	CYN	CBL	L/D
1.85720	-1.85720	-0.4270	.19500	-.04250	.04930	.15580	-.01090	.00570	.03550	-.27370
1.83550	-1.83550	.22760	.17510	-.24800	-.00600	.15760	-.03080	.06660	.03320	1.30000
1.82420	-1.82420	.46660	.22600	.48910	-.04120	.15400	-.00840	.00450	.03410	2.08440
1.80380	-1.80380	.57460	.26240	.61340	-.04940	.15090	-.00210	.00450	.03240	2.18220
1.79840	-1.79840	.58740	.31000	.73920	-.05780	.14900	.00430	.00360	.03290	2.21750
1.78230	-1.78230	.59730	.33970	.86590	-.06630	.15030	.00340	.00230	.02790	2.15660
1.76570	-1.76570	.60390	.43710	.99280	-.07480	.14330	.00220	.00260	.02660	2.08930
1.74500	-1.74500	.60600	.57040	1.18240	-.06740	.14580	-.00100	.00100	.02730	1.83390
1.73410	-1.73410	.60450	.60480	.06741	-.01320	.00062	.00241	-.00002	-.00007	.37501

RUN NO. 232/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	CL	CD	CN	CLM	CA	CY	CYN	CBL	L/D
1.85550	-1.85550	-.3230	.16150	-.03220	.03320	.16150	-.00070	.00290	.02840	-.13830
1.83560	-1.83560	.22530	.17730	-.23720	-.01930	.16010	.00210	.00120	.02850	1.27110
1.81830	-1.81830	.45990	.22480	.46720	-.05530	.15410	.00730	.00080	.03110	2.04090
1.80300	-1.80300	.56920	.26160	.60790	-.06520	.15120	.01180	.00170	.03110	2.17570
1.78710	-1.78710	.58910	.30890	.72980	-.07300	.15000	.01030	.00150	.03440	2.19540
1.77460	-1.77460	.59420	.35420	.84250	-.08000	.15090	.01750	.00100	.02850	2.12580
1.76200	-1.76200	.57300	.42820	.96070	-.08720	.14350	.02650	.00100	.02650	2.03200
1.74930	-1.74930	.55190	.55190	1.14920	-.08130	.14350	.03360	.00270	.02890	1.82650
1.73660	-1.73660	.55680	.60375	.05180	-.01247	.00033	.00067	-.00031	.00005	.38495

RUN NO. 229/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	CL	CD	CN	CLM	CA	CY	CYN	CBL	L/D
1.85730	-1.85730	-.00720	.15940	-.00700	.01410	.15840	.00750	.00000	.02050	-.04530
1.83740	-1.83740	.19950	.16960	-.02440	-.02440	.15340	.00760	.00290	.02150	1.18570
1.81750	-1.81750	.40820	.20950	.43270	-.05540	.14730	.02430	.00150	.02130	1.93810
1.80220	-1.80220	.50430	.24690	.54360	-.07040	.14480	.02430	.00160	.02130	2.05910
1.78690	-1.78690	.50430	.28370	.65210	-.08120	.14290	.02140	.00080	.02300	2.13020
1.77160	-1.77160	.59730	.33000	.75910	-.09110	.14010	.02550	.00100	.02300	2.10710
1.75630	-1.75630	.69930	.39750	.87000	-.09980	.13730	.03550	.00220	.02550	2.04220
1.74100	-1.74100	.79930	.51380	1.06900	-.10170	.13130	.03160	.00260	.02160	1.88420
1.72570	-1.72570	.84930	.60245	.05242	-.00244	.00120	.00552	.00024	.00024	.29495

(RE7035) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2690.000 SQ.FT. XMRP = 1076.8800 IN. X0
LREF = 47.6800 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

BETA =
AIRLON =

ELEVON = .000
BOFLAP = -7.170

RUN NO. 2547 0 RNAL = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.092	.23530	.06520	.06640	.03000	.05510	.06550	.09510	.00830	.03940	.65410
.597	4.188	.23290	.13370	.06800	.02950	.13830	.05810	.05780	.00930	.04150	1.95420
.597	6.258	.24010	.23200	.07440	.02780	.25880	.04870	.05980	.00980	.04250	3.11680
.597	8.348	.24650	.33710	.08630	.02430	.34600	.03640	.05930	.00978	.04330	3.90510
.597	10.448	.24250	.44810	.10480	.02320	.45870	.02180	.05860	.01006	.04470	4.27690
.597	12.545	.24140	.55520	.13200	.02210	.57060	.00930	.05890	.00970	.04560	4.20580
.598	14.677	.25290	.64560	.17820	.02200	.65870	.00910	.05890	.00960	.04600	3.62250
.598	16.771	.24320	.73860	.23550	.01950	.77510	.01240	.05430	.00640	.03400	3.13950
.598	21.022	.23290	.8650	.38310	.00570	1.02098	.04360	.04360	.00570	.03450	2.47070
.597	25.180	.21360	1.04570	.50760	.04720	1.18230	.01450	.00110	.00100	.01820	2.08000
	GRADIENT	.00058	.04601	.00063	.00019	.04711	.00180	.00865	.00024	.00051	.65405

RUN NO. 2497 0 RNAL = 4.22 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.900	.040	.21850	.07910	.09200	.05430	.07900	.09200	.05430	.01340	.03410	.65990
.900	4.252	.24140	.18110	.10410	.02130	.18950	.09040	.05590	.01200	.03410	1.74030
.900	6.361	.23800	.30080	.12230	.00710	.34250	.08820	.04660	.01130	.03120	2.48050
.900	8.488	.23660	.40310	.14790	.00280	.42050	.08680	.03690	.01080	.02950	2.72520
.901	10.630	.24210	.50420	.18310	.00220	.52930	.08780	.03650	.00830	.02840	2.75310
.900	12.746	.23800	.58060	.22850	.00270	.64540	.08908	.02900	.00520	.02840	2.80800
.899	14.882	.25030	.67370	.27440	.00210	.78150	.09220	.02560	.00260	.02770	2.45490
.900	17.080	.24520	.75540	.32970	.00400	.81980	.09380	.02150	.00830	.02760	2.28460
.900	21.292	.23320	.86320	.44670	.02550	.98510	.08550	.00290	.00520	.02040	1.97710
.899	25.458	.21520	.90310	.53310	.10380	1.04480	.09310	.03270	.01230	.00910	1.68420
	GRADIENT	.00544	.06478	.00287	.00784	.06346	.00039	.00030	.00033	.00000	.61735

RUN NO. 2437 0 RNAL = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.980	.052	.23550	.08170	.13780	.07060	.08160	.13790	.05080	.01150	.03710	.59300
.979	4.278	.22810	.19800	.15100	.01750	.20870	.13580	.03920	.00920	.03590	1.31070
.980	6.404	.23920	.33020	.17230	.00520	.34730	.13440	.03820	.00810	.03530	1.91570
.978	8.558	.24730	.45450	.20160	.00280	.47940	.13170	.03600	.00730	.03420	2.25420
.978	10.719	.24190	.57380	.23800	.00380	.60820	.12810	.03310	.00770	.03230	2.40070
.980	12.857	.22600	.68180	.28770	.04770	.72870	.12870	.02160	.00680	.02980	2.37010
.975	15.008	.22860	.77560	.34180	.04930	.85720	.12930	.01110	.00350	.02880	2.42690
.980	17.168	.23660	.86430	.40540	.04630	.94540	.12600	.00850	.00280	.02820	2.13200
.979	21.448	.21030	.95540	.56580	.00740	1.12000	.12600	.04790	.00990	.00420	1.89140
.979	25.624	.19000	1.01600	.62300	.00740	1.18950	.12640	.04358	.01200	.00420	1.63080
	GRADIENT	.00177	.06618	.00312	.01256	.06869	.00050	.00274	.00054	.00028	.45043

(RE7035) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AIRLON = 10.000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300.

RUN NO. 233/ 0 RUN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.098	.048	.22030	-.05270	.15620	.05420	-.05260	.15620	-.04530	.00940	.03180	-.33760
1.098	4.278	.22620	-.00230	.17570	-.00230	-.25380	.15870	-.03330	.06770	.03140	1.25930
1.097	6.408	.23660	.34280	.19730	-.02120	.35270	.15780	-.03280	.00740	.03280	1.73780
1.099	8.563	.24950	.46000	.22510	-.03980	.49230	.15360	-.03200	.00590	.03040	2.06170
1.098	10.730	.24670	.57140	.26190	-.04820	.61020	.15090	-.03010	.00540	.02980	2.18190
1.09	12.883	.24110	.67970	.30940	-.05450	.73450	.14930	-.02580	.00350	.02820	2.19850
1.093	15.061	.24310	.79100	.36740	-.06170	.85930	.14830	-.02060	.00290	.02830	2.15210
1.097	17.232	.23550	.90250	.43580	-.07390	.99110	.14770	-.01010	.00190	.02830	2.04180
1.098	21.529	.22730	1.05360	.57440	-.07220	1.13080	.14580	-.00850	.00280	.02880	1.83410
1.098	25.732	.22800	1.11630	.69840	-.03000	1.30880	.1450	-.08140	.00490	.02220	1.58800
GRADIENT		.00140	.06479	.00461	-.01336	.08772	.00659	.00284	-.00040	-.00009	.37269

RUN NO. 233/ 0 RUN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.199	.047	.22580	-.02550	.16240	.03550	-.02540	.16240	-.03050	.00530	.02580	1.15680
1.200	4.265	.23000	-.01740	.17800	-.01740	-.23270	.16120	-.02440	.00270	.02570	1.23590
1.202	6.408	.24050	.34170	.19850	-.03940	.36180	.15910	-.02670	.00140	.02560	1.78200
1.192	8.563	.24350	.45650	.22500	-.05360	.48480	.15470	-.01428	.00220	.02540	2.02440
1.197	10.734	.24330	.56720	.26100	-.06370	.60990	.15080	-.01600	.00150	.02890	2.17350
1.197	12.890	.24030	.67480	.30778	-.07180	.72640	.14940	-.01820	.00150	.02620	2.19280
1.196	15.051	.24260	.77080	.36330	-.07790	.83870	.14870	-.01110	.00050	.02440	2.12180
1.196	17.219	.23730	.86570	.42590	-.08670	.95390	.14820	-.00900	.00240	.02300	2.03520
1.193	21.521	.22360	1.01270	.55380	-.08130	1.14930	.14370	-.00300	.00420	.02170	1.88870
1.193	25.740	.22720	1.10500	.68340	-.05610	1.25810	.13570	.00370	.00650	.01770	1.61680
GRADIENT		.00218	.05820	.00370	-.01254	.06419	-.00028	.00142	-.00082	-.00002	.38019

RUN NO. 228/ 0 RUN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.022	.008	.21020	-.01190	.15910	.01590	-.01190	.15910	-.02100	.00200	.01630	-.07480
1.020	4.268	.20670	-.02320	.16940	-.02320	-.21010	.15440	-.00260	.00100	.01640	1.17030
1.023	6.327	.22050	.38100	.18980	-.04000	.31980	.15150	-.00910	.00030	.01670	1.51920
1.027	8.455	.23990	.46270	.20940	-.05480	.42920	.14770	-.00678	.00110	.01650	1.98260
1.026	10.643	.23370	.50590	.24240	-.06940	.54200	.14470	-.00160	.00142	.01640	2.08750
1.023	12.722	.23700	.60620	.28400	-.08350	.65400	.14280	.03600	.00149	.01900	2.13470
1.020	14.942	.25670	.69790	.33150	-.09560	.75980	.14058	-.01300	.00340	.01940	2.10940
1.023	17.106	.24070	.78730	.38570	-.09870	.86590	.13710	-.00780	.00280	.01950	2.04110
1.023	21.419	.23990	.94300	.51160	-.10120	1.08470	.13190	-.00860	.00510	.01930	1.84340
1.023	25.672	.23370	1.05480	.65200	-.08960	1.24270	.12630	.00680	.00680	.01660	1.63630
GRADIENT		.00063	.05003	.00245	-.00331	.05286	-.00112	.00438	-.00324	-.00002	.39546

(RE70355) (08 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0800 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = 2.000 ELEVON = .000
AILRON = 10.000 EBLAP = -7.370

PARAMETRIC DATA

RUN NO. 2554 0 RV/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.095	2.28910	.05830	.06400	.02820	-.05820	.06410	-.08900	.01110	.06760	-.91020
.597	4.196	2.33120	.43810	.06700	.02850	.13570	.05730	-.09640	.01190	.03860	1.95590
.595	8.366	2.34230	.33480	.08580	.02260	.34370	.03620	-.09280	.01230	.03940	3.90040
.599	10.472	2.35710	.44850	.10470	.01930	.46010	.02140	-.09380	.01230	.03920	4.28890
.597	12.621	2.34840	.55880	.13270	.01780	.57440	.00730	-.09330	.01100	.03920	4.28290
.597	14.762	2.33270	.68590	.16190	.01640	.68020	.00620	-.08770	.01030	.03920	3.46150
.597	16.975	2.32700	.75730	.23890	.01470	.79480	.00840	-.08170	.01030	.03920	3.17020
.597	21.115	2.31440	.96970	.38620	-.00020	1.06440	.01460	-.08380	.01070	.03920	2.48480
.599	GRADIENT	.01027	.04618	.00073	-.00041	.04726	-.00165	-.00107	.00020	.00024	.58868

RUN NO. 2471 0 RV/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.898	.030	2.31610	-.08820	.03160	.02400	-.08810	.03160	-.08740	.01370	.03340	-.96270
.899	4.248	2.33210	.17030	.10140	.02170	.17740	.08850	-.08560	.01350	.03210	1.68030
.897	6.375	2.33580	.29600	.12150	.00680	.36660	.08950	-.08820	.01320	.02910	2.47850
.895	8.493	2.33340	.39760	.14510	.00210	.41460	.08480	-.07400	.01080	.02820	3.73970
.897	10.635	2.33660	.49010	.17830	.00000	.51460	.08480	-.06430	.00840	.02320	2.74820
.900	12.808	2.32330	.58810	.22630	-.00120	.62370	.09030	-.09510	.00480	.02280	2.59920
.898	14.953	2.33370	.67430	.27400	-.00380	.72210	.09060	-.05940	.00090	.02570	2.46120
.897	17.139	2.35010	.75850	.32980	-.00380	.82280	.09170	-.05070	.00220	.02540	2.29920
.902	21.397	2.32550	.88860	.45270	-.02630	.99240	.09730	-.02060	.01500	.01700	1.96280
	GRADIENT	.00332	.06129	.00232	-.00766	.06295	-.00073	.00043	-.00005	-.00031	.52564

RUN NO. 2444 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.980	.062	2.30100	-.08980	.13960	.07260	-.08870	.13970	-.08250	.01350	.03470	-.64360
.978	4.283	2.34190	.19040	.15010	.01900	.20110	.13640	-.07500	.01030	.03240	1.26850
.980	6.576	2.34520	.44900	.20270	-.02120	.47420	.13350	-.06700	.00820	.03140	2.21510
.977	10.733	2.33540	.56640	.23600	-.03570	.60040	.12640	-.06080	.00780	.02820	2.20020
.976	12.931	2.31000	.67400	.26360	-.04470	.78038	.12590	-.05010	.00510	.02550	2.37670
.979	15.065	2.34540	.77220	.34170	-.04820	.89450	.12520	-.03890	.00390	.02610	2.26000
.978	17.270	2.36270	.85940	.40420	-.04380	.94060	.13080	-.03680	.00570	.02440	2.12830
.979	21.527	2.33820	.93120	.52480	-.02270	1.11478	.12448	-.00010	.01910	.01150	1.68890
	GRADIENT	.00959	.06637	.00249	-.01270	.06688	-.00102	.00178	-.00078	-.00062	.48291

(RE7035) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-084 0A16A ORBITER

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AHLRON = 10.000 EDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .03000

RUN NO. 237/ 01 RW/L = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.097	.045	2.32820	-.08940	.15810	.05630	-.05930	.15810	-.08420	.01180	-.02780	-.37800
1.098	.083	2.31060	-.21500	.17820	-.00200	-.22750	.15940	-.08650	.01010	-.02690	1.28170
1.099	.138	2.33040	-.45350	.22580	-.03530	-.48220	.15560	-.08840	.00840	-.02630	2.10840
1.099	.200	2.32550	-.56740	.26110	-.04730	-.60620	.15070	-.09410	.00570	-.02460	2.17490
1.099	.266	2.31480	-.67080	.30730	-.05960	-.72200	.14680	-.09510	.00490	-.02320	2.17930
1.097	.331	2.30570	-.78180	.36650	-.07040	-.85030	.14990	-.05780	.00270	-.02530	2.13320
1.097	.398	2.35160	-.89210	.43340	-.07840	-.98880	.14790	-.04560	-.00170	-.02450	2.05840
1.100	.462	2.34450	1.04900	.57350	-.07120	1.18560	.14670	-.04290	-.00560	-.02380	1.82880
		-.00415	.06475	.00422	-.01362	.06767	.00031	-.00654	-.00040	-.00321	-.37599

RUN NO. 234/ 0 RW/L = 4.27 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.198	.050	2.30060	-.03060	.16220	.03700	-.03840	.16220	-.06120	.00770	-.02280	1.18880
1.199	.080	2.32910	-.21530	.17820	-.01540	-.22800	.16170	-.04670	.00470	-.02270	1.20830
1.195	.138	2.34410	-.46190	.22540	-.03230	-.48040	.15540	-.04970	.00200	-.02460	2.10430
1.195	.200	2.33970	-.56140	.26080	-.06200	-.60030	.15150	-.04710	.00230	-.02210	2.15250
1.195	.266	2.31970	-.67240	.30810	-.07140	-.72430	.14990	-.04730	.00130	-.02230	2.18190
1.197	.331	2.37410	-.77090	.36300	-.07850	-.83890	.14950	-.04700	-.00070	-.02210	2.12400
1.197	.398	2.38290	-.86580	.42580	-.08470	-.95310	.14780	-.04470	-.00460	-.01980	2.03740
1.200	.462	2.35270	1.01910	.53420	-.08250	1.14790	.14140	-.03150	-.01040	-.01820	1.83160
		.00677	.06841	.00380	-.01245	.06138	-.00012	-.00344	-.00070	-.00002	-.33187

RUN NO. 227/ 0 RW/L = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.402	.010	2.30820	-.01460	.15930	.01620	-.04450	.15930	-.04890	.00370	-.01650	1.09140
1.401	.024	2.32120	-.15600	.16990	-.02380	-.20790	.15510	-.03590	.00040	-.01460	1.15330
1.397	.050	2.33320	-.40360	.21100	-.03480	-.42970	.14900	-.03160	-.00190	-.01560	1.91200
1.395	.063	2.32810	-.50550	.24460	-.04700	-.54240	.14680	-.03710	.00220	-.01550	2.02670
1.397	.083	2.32800	-.60650	.28680	-.05950	-.65520	.14490	-.03710	.00370	-.01620	2.11510
1.395	.108	2.35190	-.69590	.33400	-.07040	-.78250	.14130	-.03430	-.00490	-.01590	2.09560
1.397	.133	2.37950	-.79170	.38860	-.08150	-.89150	.13770	-.03940	-.00720	-.01590	2.03190
1.401	.157	2.34090	-.94400	.51440	-.10180	1.06770	.13290	-.02530	-.01180	-.01600	1.83670
1.397	.181	.00309	.05809	.00262	-.04932	.08289	-.00100	-.00309	-.00078	-.00321	-.29603

TABULATED DATA - 0A161 (ARC 11-97-87-034)
ARC 11-97-87-034 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.8800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 379.0008 IN. ZO
SCALE = .0300

BETA =
AFLRON =
5.000 ELEVON = .000
10.000 BOFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.598	.108	5.38070	-.09228	.06150	.02130	-.05210	.06150	-.14410	.01570	.03690	-.84880
.598	4.211	5.40400	-.13050	.08450	.02000	.34980	.03440	-.14400	.01630	.03500	2.08940
.598	8.399	5.41850	-.34058	.08440	.01700	.45980	.03480	-.14780	.01670	.03450	3.98860
.598	10.508	5.41850	-.44830	.10310	.01430	.45980	.01970	-.14730	.01630	.03260	4.34660
.597	12.631	5.41350	-.56150	.13130	.01188	.57860	.00540	-.14250	.01600	.03120	4.27560
.597	14.753	5.41020	-.68840	.17840	.00740	.69130	.00040	-.14090	.01530	.02940	3.78840
.597	16.861	5.40900	-.78440	.23400	.00610	.79890	.00220	-.13890	.01490	.02550	3.26650
.596	21.074	5.41790	-.95040	.37310	-.00400	1.02100	.00640	-.14440	.01640	.02620	2.54730
.596	GRADIENT	.00588	.04550	.00073	-.00032	.04682	-.00175	.00002	.08029	-.00924	.71510

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.300	.059	5.40050	-.09410	.09300	.05250	-.09400	.09310	-.14940	.01820	.03100	-1.01160
.899	4.282	5.43190	-.16320	.10070	.01950	.17030	.08830	-.14160	.01840	.02930	1.62078
.899	6.396	5.42810	-.29330	.12660	.00138	.30510	.08910	-.13190	.01620	.02630	2.39280
.899	8.522	5.43570	-.39750	.14730	-.00170	.41500	.08670	-.12920	.01400	.02290	2.69980
.899	10.674	5.42290	-.49420	.18060	-.00310	.51520	.08550	-.12610	.01040	.01870	2.71970
.898	12.793	5.42570	-.57840	.22040	-.00670	.61280	.08550	-.11480	.00628	.01830	2.62790
.900	14.943	5.43870	-.67330	.27310	-.01130	.72090	.09020	-.11120	.00150	.02100	2.46570
.898	17.078	5.46120	-.75450	.32670	-.00640	.81720	.09080	-.10520	-.00530	.01920	2.30920
.898	21.358	5.46310	-.88200	.43960	.03110	.98160	.08828	-.07110	-.01930	.01220	2.00540
.898	GRADIENT	.00747	.05121	.00183	-.00783	.06288	-.00114	.00178	.00005	-.00064	.62523

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
.978	.063	5.40930	-.09928	.14010	.06970	-.09910	.14020	-.14110	.01870	.03100	-1.70810
.981	4.295	5.42730	-.18110	.14980	.01980	.19180	.13598	-.12830	.01570	.02570	1.20860
.976	8.581	5.42550	-.43520	.19680	-.01730	.45878	.12570	-.11730	.01310	.02488	2.21150
.978	10.755	5.40110	-.58580	.23360	-.03300	.58970	.12588	-.10880	.01190	.02280	2.37910
.981	12.907	5.40970	-.66580	.28710	-.04150	.71410	.13098	-.10290	.00650	.01960	2.32310
.982	15.053	5.44750	-.75870	.33480	-.04260	.81950	.12630	-.09810	.00210	.01830	2.26590
.979	17.205	5.45530	-.86040	.39650	-.04110	.92960	.12720	-.08590	-.00720	.01710	2.14480
.983	21.505	5.45980	1.00120	.52750	-.02710	1.12490	.12390	-.05130	-.02288	.00350	1.89750
.983	GRADIENT	.00425	.06524	.00228	-.01178	.06874	-.00102	.00302	-.00071	-.00125	.45292

TABULATED DATA - 0A161 (ARC 11-97-87-09#)

(RE7837) (02 AUG 76)

ARC 11-97-87-09# 0A161 ORBITER

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALLRON = 10.000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0008 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 236/ 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.100	.071	5.39930	-.06080	.15870	.05160	-.05070	.15870	-.13298	.01680	-.02190	-.38390
1.100	.304	5.43590	.21240	.17720	-.00470	.22510	.16870	-.12030	.01370	.02090	1.19880
1.100	8.603	5.43090	.44720	.22870	-.03330	.47640	.15920	-.11300	.01160	.01930	1.96550
1.098	10.782	5.43110	.56470	.26430	-.04660	.60410	.15480	-.10690	.00900	.01780	2.13690
1.098	12.931	5.41090	.66510	.30720	-.05010	.71700	.15060	-.09960	.00660	.01750	2.16528
1.096	15.088	5.42770	.76340	.35040	-.05460	.83280	.14870	-.09570	.00260	.01700	2.12370
1.089	17.257	5.46370	.86740	.42090	-.06150	.96320	.14460	-.08670	-.00460	.01690	2.05070
1.108	21.569	5.48300	1.04040	.58720	-.07150	1.17610	.14500	-.07430	-.01640	.01620	1.83420
GRADIENT		.00853	.06456	.00437	-.01330	.05751	.00047	.00298	-.00073	-.00033	.37386

RUN NO. 235/ 0 RV/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.197	.076	5.43020	-.03530	.16190	.03640	-.03500	.16190	-.12260	.01240	-.01880	-.21780
1.198	.208	5.42440	.20790	.17530	-.01360	.22040	.19930	-.09780	.00840	.01840	1.18670
1.194	8.600	5.43350	.44620	.22440	-.04880	.47470	.15320	-.09480	.00360	.01630	1.98840
1.198	10.777	5.42010	.55560	.26110	-.05950	.59460	.15260	-.09600	.00270	.01690	2.12620
1.198	12.924	5.43270	.65930	.30510	-.06800	.71080	.14998	-.10018	.00200	.01620	2.16110
1.195	15.089	5.44150	.76360	.35760	-.07470	.83030	.14650	-.09050	-.00300	.01590	2.13510
1.195	17.248	5.48020	.86200	.41600	-.08020	.93710	.14470	-.08790	-.00809	.01520	2.04800
1.197	21.568	5.50130	1.01750	.55220	-.08750	1.14930	.13940	-.07360	-.01930	.01590	1.84290
GRADIENT		-.00138	.05774	.00318	-.01187	.06064	-.00062	.00589	-.00095	-.00009	.33323

RUN NO. 226/ 0 RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.400	.048	5.43790	-.01660	.15940	.01470	-.01650	.15940	-.11310	.00630	.01380	-.10430
1.400	.241	5.44000	.19220	.18560	-.02480	.20420	.15498	-.09120	.00220	.01160	1.13360
1.396	8.520	5.43910	.39910	.21110	-.05910	.42600	.14960	-.07370	-.00190	.01160	1.89060
1.397	10.695	5.40870	.50160	.24420	-.06950	.53820	.14680	-.06830	.00090	.01090	2.05430
1.397	12.837	5.44610	.60060	.28430	-.08240	.64870	.14370	-.08440	-.00530	.01120	2.11280
1.398	14.993	5.43750	.69080	.33020	-.09080	.75270	.14020	-.07210	-.00640	.01150	2.09210
1.397	17.154	5.47310	.77970	.38400	-.09650	.86830	.13690	-.06980	-.01140	.01210	2.03080
1.399	21.474	5.50090	.93960	.50920	-.10230	1.06080	.12990	-.06490	-.02150	.01270	1.84520
GRADIENT		.00050	.04979	.00241	-.00923	.05263	-.00107	.00522	-.00098	-.00052	.29519

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OF POOR QUALITY

(RE7038) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-09)

ARC 11-97-87-09 0A161 ORBITER + PROBES

PARAMETRIC DATA

REFERENCE DATA

BETA = -8.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

SREF = 2690.0000 SQ.FT. XREF = 1076.6800 IN. X0
LREF = 474.8000 IN. YREF = .0000 IN. Y0
BREF = 936.6800 IN. ZREF = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.300	1.211	-7.94770	.01586	.04298	.01530	.01670	.04268	.13260	.00930	.00680	.36830
.299	2.173	-7.89910	.05380	.04270	.01620	.05940	.04060	.13298	.00960	.00780	1.26060
.298	4.172	-7.89830	.14060	.04630	.01660	.14360	.03598	.13380	.00950	.00960	3.03670
.297	6.182	-7.89550	.23410	.05300	.01590	.23650	.02750	.13370	.00970	.01130	4.41370
.296	8.230	-7.88280	.32590	.06340	.01608	.3160	.01610	.13160	.00960	.01390	5.14240
.295	10.271	-7.87150	.42190	.07910	.01560	.42920	.00260	.13048	.01750	.02040	5.33410
.294	12.315	-7.85480	.52310	.09950	.01140	.53230	.01430	.12820	.01030	.02040	5.25480
.293	14.372	-7.83470	.62430	.12770	.00690	.63640	.03120	.12950	.00990	.02270	4.88730
.292	16.417	-7.80470	.72870	.16480	.00560	.74560	.04790	.12460	.00930	.02290	4.42260
.291	18.471	-7.76470	.83990	.21330	.00320	.86420	.05380	.12710	.00950	.02490	3.93810
.290	20.528	-7.71820	.93870	.26940	.00260	.97350	.07690	.12640	.00920	.02700	3.48480
.289	22.569	-7.66220	1.03300	.33530	.00260	1.08250	.08890	.12650	.00820	.02860	3.08100
.288	24.623	-7.59540	1.13440	.41790	.01740	1.20540	.09270	.13370	.00850	.02570	2.71450
.287	25.643	-7.51950	1.15450	.45560	.01120	1.23800	.08890	.12060	.00870	.02730	2.53430
GRADIENT		.01422	.04235	.00125	.00040	.04305	.00228	.00091	.00005	.00094	.89935

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	1.231	-8.00730	.00888	.04480	.02210	.00980	.04460	.14020	.01080	.00670	.19700
.596	2.205	-7.96530	.05350	.04570	.02150	.05520	.04360	.13930	.01100	.00770	1.17040
.595	4.240	-7.91370	.14800	.04940	.02150	.15130	.03840	.14000	.01130	.00970	2.99360
.594	6.303	-7.97560	.24630	.05760	.02010	.25120	.03020	.13830	.01140	.01230	4.27600
.593	8.386	-7.96070	.35010	.07080	.01970	.35870	.01980	.13310	.01100	.01560	4.94600
.592	10.475	-7.92260	.46080	.08940	.01550	.46930	.00380	.13290	.01200	.01930	5.17440
.591	12.577	-7.93950	.57900	.11860	.00960	.59100	.01038	.13280	.01220	.02200	4.88110
.590	14.686	-7.93180	.68170	.16950	.00560	.70140	.01280	.13740	.01340	.01850	4.12010
.589	16.778	-7.92320	.77260	.23340	.00210	.80420	.00920	.13710	.01450	.01730	3.45910
.588	18.864	-7.93970	.86820	.29340	.00670	.91700	.00150	.14810	.01340	.01730	2.93920
.587	20.959	-7.93840	.95380	.36118	.00610	1.01990	.00450	.13830	.01398	.01770	2.64130
.586	23.075	-7.93480	1.04300	.43290	.00420	1.12920	.01050	.14930	.01150	.01160	2.40940
.585	25.131	-7.93280	1.07710	.49040	.01480	1.18340	.01360	.14630	.00810	.00900	2.19650
.584	26.132	-7.90740	1.04170	.50040	.04780	1.15560	.00960	.12238	.00470	.02050	2.08190
GRADIENT		.00928	.04616	.00157	.00017	.04693	.00213	.00000	.00016	.00093	.92184

(RE7039) (02 AUG 76)

TABULATED DATA - 0A16J (ARC 11-97-87-094)
ARC 11-97-87-094 0A16J ORBITER + PROBES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1075.6900 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -5.000 ELEVON = .000
AIRLON = .000. BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 262/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.299	1.154	-4.91090	.00240	.04640	.02140	.00330	.04830	.08700	-.00650	.00460	.05130
.299	2.137	-4.90100	.04500	.04590	.02270	.04670	.04410	.08890	-.00640	.00480	.08210
.299	4.135	-4.91230	.13240	.04900	.02250	.13560	.03930	.08890	-.00600	.00600	2.70340
.299	6.165	-4.90710	.22560	.06620	.02090	.23030	.03160	.08260	-.00590	.00700	4.01550
.299	8.203	-4.90440	.31748	.06530	.02070	.32350	.01930	.08680	-.00600	.00870	4.06070
.299	10.263	-4.89420	.41430	.08020	.02040	.42200	.00510	.08650	-.00570	.01140	5.16510
.298	12.320	-4.85770	.51100	.09920	.02050	.52040	-.01210	.08420	-.00540	.01420	5.15230
.298	14.368	-4.82860	.60890	.12620	.02120	.62120	-.02880	.08150	-.00600	.01500	4.82400
.299	16.404	-4.83150	.71210	.16240	.01760	.72890	-.04530	.08070	-.00590	.01520	4.39480
.299	18.473	-4.86400	.82580	.21120	.01020	.85020	-.05140	.08250	-.00600	.01620	3.91050
.299	20.538	-4.87620	.92820	.26540	.00610	.96270	-.07610	.08320	-.00570	.01700	3.48350
.299	22.584	-4.88070	1.02120	.33440	.00240	1.07020	-.08620	.08320	-.00570	.01850	3.08150
.299	24.637	-4.87430	1.09150	.40610	.00170	1.16150	-.08590	.07110	-.00230	.01910	2.68760
.299	25.658	-4.86300	1.12740	.44910	.00140	1.21070	-.08340	.07660	-.08370	.01760	2.51060
.300	GRADIENT	-.03123	.04363	.00097	.00030	.04440	-.00236	.00041	.00017	.00049	.88563

RUN NO. 265/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	1.137	-4.93370	.00220	.04900	.02720	.00320	.04890	.08760	-.00750	.00460	.04570
.595	2.166	-4.93660	.05030	.04910	.02700	.05210	.04720	.08800	-.00750	.00540	1.02380
.596	4.201	-4.93840	.14290	.05210	.02660	.14630	.04140	.08820	-.00710	.00610	2.74510
.596	6.274	-4.93030	.24490	.06010	.02390	.25000	.03300	.08390	-.00690	.00690	4.07560
.596	8.358	-4.92160	.34880	.07200	.02260	.35550	.02050	.08570	-.00750	.00990	4.84550
.596	10.463	-4.90970	.46680	.09010	.02060	.46540	.00570	.08280	-.00740	.01280	5.06770
.596	12.572	-4.88490	.57150	.11820	.01800	.58350	-.00900	.08300	-.00590	.01480	4.83480
.597	14.669	-4.87590	.66760	.16490	.01490	.69760	-.00960	.08300	-.00600	.01060	4.04890
.597	16.764	-4.87860	.76070	.22360	.01690	.79290	-.00530	.08400	-.00680	.00920	3.40150
.597	18.883	-4.90430	.85810	.29510	.00120	.90750	-.00150	.08260	-.00850	.00950	2.90760
.597	20.994	-4.90880	.94810	.36370	.00140	1.01540	-.00010	.09770	-.00830	.00700	2.60690
.597	23.086	-4.90700	1.03140	.43300	.00200	1.11860	-.00610	.10370	-.00700	.00430	2.39190
.597	25.166	-4.89960	1.08590	.49940	.00120	1.19620	-.00980	.10960	-.00580	.00010	2.17450
.598	26.161	-4.87530	1.04420	.50980	.00060	1.16200	-.00280	.08270	-.00370	.01100	2.04810
.598	GRADIENT	-.04144	.04569	.00109	-.00020	.04665	-.00250	.00018	.00014	.00047	.87608

TABULATED DATA - 04161 (ARC 11-97-87-094)
ARC 11-97-87-094 04161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO:
LREF = 474.8800 IN. YMRP = .0000 IN. YO:
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO:
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 261/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.299	1.120	-1.85800	.00050	.04940	.02410	.00050	.04940	.03598	-.00250	.00140	-.00950
.300	2.103	-1.85380	.04090	.04950	.02440	.04270	.04808	.03740	-.00250	.00160	.82510
.300	4.110	-1.84430	.12770	.05130	.02510	.13110	.04280	.03820	-.00230	.00200	2.48970
.300	6.148	-1.83440	.21920	.05740	.02510	.22410	.03366	.03620	-.00230	.00240	3.81960
.300	8.178	-1.84120	.31500	.06590	.02500	.32130	.02140	.03450	-.00250	.00330	4.70750
.299	10.234	-1.84360	.41070	.08160	.02500	.41870	.00730	.03820	-.00260	.00490	5.03270
.299	12.306	-1.84210	.50510	.10100	.02400	.51600	.00920	.03540	-.00300	.00830	5.01070
.300	14.351	-1.77230	.59850	.12710	.02500	.61130	-.02520	.03290	-.00340	.00680	4.79770
.299	16.419	-1.83190	.70950	.16466	.02040	.72720	-.04270	.03510	-.00330	.00780	4.31190
.300	18.491	-1.84350	.81760	.21130	.01390	.84240	-.05698	.03510	-.00290	.00720	3.86900
.299	20.571	-1.84190	.92360	.26760	.01050	.95870	-.07400	.03750	-.00250	.00680	3.45180
.299	22.611	-1.82280	1.07900	.33170	.00640	1.06720	-.08520	.03380	-.00170	.00730	3.05880
.299	24.655	-1.80860	1.11200	.40830	.01100	1.15740	-.08200	.02810	.00040	.00900	2.65030
.299	26.657	-1.80860	1.11200	.44560	.01100	1.19930	-.08000	.02710	.00040	.00810	2.49530
GRADIENT		.00853	.04294	.00067	.00034	.04374	-.00255	-.00043	.00008	.00020	.83504

RUN NO. 265/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	1.096	-1.85260	.00480	.05100	.03010	-.00390	.05100	.03430	-.00330	.00150	-.05340
.596	2.127	-1.85900	.04310	.05130	.02970	.04500	.04970	.03548	-.00318	.00160	.84020
.596	4.174	-1.84390	.13770	.05450	.02920	.14130	.04430	.03360	-.00280	.00200	2.52690
.596	6.254	-1.84280	.25880	.06070	.02720	.24400	.03430	.03540	-.00270	.00250	3.93640
.597	8.333	-1.84580	.34260	.07220	.02380	.34950	.02170	.03560	-.00290	.00330	4.74870
.596	10.439	-1.84040	.45800	.09030	.02180	.45896	.00720	.03420	-.00320	.00550	4.98610
.596	12.555	-1.83260	.56200	.11830	.02140	.57430	-.00570	.03418	-.00300	.00650	4.73220
.597	14.645	-1.79990	.65550	.16470	.02010	.67580	-.00540	.03818	-.00470	.00410	3.98110
.597	16.777	-1.86040	.75070	.22330	.01500	.78320	-.00640	.04198	-.00370	.00360	3.35130
.597	18.904	-1.86340	.84970	.29510	.00690	.89940	.00390	.04300	-.00370	.00260	2.87950
.597	21.035	-1.85660	.96330	.37140	.00180	1.02310	.00450	.04680	-.00280	.00020	2.56690
.597	23.120	-1.84690	1.04410	.44620	.00540	1.13540	.00040	.05050	-.00280	.00040	2.34000
.597	25.187	-1.81620	1.08070	.50780	.03050	1.19410	-.00030	.04430	-.00220	.00120	2.12780
.597	27.172	-1.80260	1.03520	.51260	.06240	1.15520	.00330	.04080	-.00198	.00350	2.01930
GRADIENT		.00347	.04628	.00120	-.00028	.04712	-.00224	-.00025	.00016	.00017	.84801

(RE7041) (02 AUG 78

PARAMETRIC DATA

BETA =
ALTRON =

BETA =
ALTRON =

ARC 11-57-87-054 QAL61 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XC
LREF = 474.8080 IN. YMRP = .0800 IN. YC
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 2607 0 RNL = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.299	1.084	.19260	-.01020	.04950	.02560	-.00930	.04963	.00610	-.00040	-.00010	-.20940
.299	2.096	.20570	.03500	.05010	.02550	.03780	.04880	.00730	-.00030	.00010	.71760
.298	4.109	.20700	.12320	.05180	.02710	.12660	.04280	.00690	.00030	.00000	2.37990
.299	6.136	.21520	.21490	.05800	.02590	.21990	.03470	.00260	.00070	.00000	3.70400
.299	8.176	.22280	.31140	.06700	.02440	.31780	.02200	.00330	.00050	.00030	4.64770
.298	10.218	.22210	.40980	.08190	.02310	.41790	.00790	.00610	.00050	.00050	5.00090
.298	12.260	.22360	.50070	.10070	.02540	.51070	-.00790	.00508	-.00050	.00080	4.97380
.298	14.305	.23840	.59800	.12690	.02630	.61080	-.02480	.00540	.00060	.00140	4.71170
.298	16.375	.24200	.70530	.16370	.02260	.72280	-.04180	.00680	.00070	.00210	4.30790
.298	18.445	.25030	.81960	.21200	.01520	.84450	-.07340	.00590	.00060	.00210	3.86520
.298	20.528	.25630	.92900	.26950	.01280	.96450	-.08470	.00680	.00060	.00060	3.44680
.298	22.576	.25320	1.01410	.32880	.00920	1.06300	-.08470	.00680	.00060	.00060	3.07440
.298	24.627	.25020	1.07880	.39850	.01390	1.14670	-.08730	.00680	.00060	.00060	2.70750
.298	26.680	.25680	1.10920	.44430	.01340	1.19220	-.07960	.00190	.00100	.00110	2.49670
.299	28.748	.00418	.04398	.00077	.00047	.04480	-.00235	.00020	.00003	.00002	.85068

RUN NO. 2674 0 RNL = 4.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	1.090	.19810	-.00830	.05180	.03140	-.00730	.05200	.00150	-.00080	.00000	-.15990
.596	2.124	.20670	.03900	.05240	.03160	.04098	.05098	.00460	-.00040	-.00020	.74490
.595	4.175	.20870	.13380	.05470	.03130	.13740	.04480	.00130	-.00070	.00000	2.44540
.595	6.246	.21280	.23440	.06130	.02900	.23970	.03550	.00480	-.00050	.00010	3.82230
.595	8.336	.21390	.34170	.07310	.02530	.34870	.02280	.00590	.00060	.00050	4.67540
.597	10.429	.21190	.45060	.09070	.02280	.45950	.00770	.00570	.00060	.00070	4.96670
.597	12.532	.21000	.55800	.11790	.02310	.57030	.00590	.00510	.00020	.00100	4.73370
.597	14.632	.22390	.65330	.15330	.02000	.67390	-.00610	.00960	.00170	.00030	3.95240
.597	16.750	.22010	.74860	.22290	.01840	.78100	-.00230	.00800	.00120	.00120	3.35810
.597	18.863	.20870	.84700	.29310	.01000	.89620	.00350	.00730	.00090	.00140	2.89010
.598	21.001	.20460	.96300	.37430	.00140	1.03320	.00440	.01090	.00070	.00230	2.57240
.597	23.099	.20720	1.06860	.45450	.00180	1.15850	.00008	.01490	.00170	.00170	2.34450
.595	25.164	.20710	1.08860	.51100	.00260	1.20260	.00040	.01290	.00130	.00280	2.13020
.598	26.150	.20910	1.02920	.51050	.00630	1.14880	.00460	.01110	.00180	.00260	2.01630
GRADIENT		.00336	.04609	.00097	-.00005	.04693	-.00242	-.00028	.00001	.00001	.84244

(RE7042) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BBFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 259/ 0 RUN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.298	1.090	2.24970	.01100	.04910	.05530	.01010	.04650	-.02900	.00160	-.00190	-.22450
.298	2.101	2.25250	.03450	.04970	.02550	.03630	.04840	-.03850	.00150	-.00240	.69330
.298	4.112	2.27070	.12210	.05120	.02540	.12540	.04230	-.02710	.00170	-.00270	2.38280
.298	6.142	2.28260	.21548	.05740	.02470	.22030	.03400	-.02630	.00140	-.00280	3.75540
.297	8.199	2.29008	.31010	.06680	.02270	.31640	.02190	-.02480	.00190	-.00350	4.64410
.297	10.247	2.30890	.40960	.08110	.02050	.41710	.01700	-.02350	.00180	-.00410	5.04680
.297	12.350	2.31170	.50390	.10080	.02280	.51380	.01930	-.02440	.00130	-.00520	5.00080
.297	14.456	2.25970	.60730	.12940	.02380	.62040	.02630	-.02270	.00140	-.00370	4.69240
.297	16.521	2.24840	.71000	.16570	.02660	.72780	.04310	-.02710	.00660	-.00250	4.28480
.298	18.579	2.23910	.81950	.21270	.01470	.84500	.05560	-.02440	.00040	-.00330	3.85400
.298	20.625	2.23420	.91770	.26620	.01180	.96270	.07420	-.02440	.00090	-.00510	3.44610
.298	22.661	2.24480	1.04810	.33330	.00760	1.06800	.08470	-.02590	.00060	-.00540	3.05470
.298	24.686	2.26980	1.09100	.40610	.01040	1.16090	.08660	-.02130	.00050	-.00670	2.68630
.298	25.692	2.28240	1.11330	.44890	.01110	1.19788	.07810	-.02440	.00200	-.00470	2.48000
.299	GRADIENT	.00725	.04397	.00070	.00002	.04476	-.00242	.00064	.00004	-.00425	.05954

RUN NO. 271/ 0 RUN/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	1.121	2.25250	.00750	.05170	.03000	.00650	.05190	-.03240	.00160	-.00190	-.14530
.597	2.132	2.27630	.03730	.05210	.03030	.03930	.05070	-.03090	.00190	-.00220	.71610
.598	4.187	2.29490	.13460	.05530	.02970	.13830	.04530	-.03190	.00140	-.00260	2.45520
.597	6.266	2.30040	.23670	.06160	.02720	.24200	.03540	-.02780	.00160	-.00290	3.83980
.595	8.356	2.29710	.34070	.07330	.02340	.34770	.02300	-.02740	.00190	-.00310	4.64850
.596	10.458	2.31080	.45040	.09160	.02110	.45960	.00830	-.02630	.00230	-.00440	4.91980
.596	12.613	2.30740	.56450	.12030	.01950	.57710	.00590	-.02560	.00280	-.00480	4.69300
.597	14.746	2.28030	.65750	.16790	.01980	.67860	.00500	-.02520	.00080	-.00490	3.91620
.596	16.890	2.26860	.75650	.22740	.01640	.79900	.00220	-.02510	.00050	-.00510	3.32650
.596	19.004	2.28270	.86170	.30020	.00720	.91250	.00330	-.02830	.00130	-.00450	2.87010
.598	21.104	2.27580	.96740	.37590	.00150	1.03790	.00240	-.02820	.00160	-.00340	2.57350
.598	23.192	2.28400	1.08010	.46110	.00160	1.17440	.00150	-.02820	.00170	-.00370	2.34240
.597	25.233	2.30240	1.09030	.51250	.00350	1.20480	.00120	-.02230	.00000	-.00640	2.12740
.597	26.292	2.30570	1.08150	.51170	.06400	1.15140	.00370	-.01370	-.00170	-.01020	2.01580
.596	GRADIENT	.01313	.04649	.00123	.00013	.04736	-.00222	.00007	-.00003	-.00022	.84081

TABULATED DATA - 0A161 (ARC 11-97-87-054)
ARC 11-97-87-054 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

RUN NO. 258 Q RVL = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.297	1.115	5.31100	.00370	.04630	.01920	.00280	.04640	-.07930	.00580	-.00380	-.07930
.297	2.117	5.31810	.03910	.04670	.01970	.04080	.04530	-.07830	.00570	-.00420	.83590
.297	4.137	5.33120	.12910	.05000	.01990	.13240	.04060	-.07910	.00560	-.00520	2.58020
.297	6.176	5.33820	.21860	.05670	.01890	.22340	.03680	-.07820	.00490	-.00580	3.85630
.296	8.226	5.34490	.31920	.06770	.01750	.32960	.02130	-.07580	.00510	-.00720	4.71750
.297	10.302	5.34180	.41460	.08490	.01780	.42260	.08630	-.07830	.00500	-.00960	5.05960
.295	12.370	5.34910	.51170	.10110	.01840	.52150	-.01080	-.07580	.00470	-.01120	5.05890
.297	14.447	5.33510	.60940	.12780	.01850	.62200	-.02830	-.07370	.00420	-.01170	4.78950
.298	16.509	5.31820	.71340	.16430	.01550	.73060	-.06250	-.07340	.00310	-.01120	4.34240
.298	18.569	5.30950	.81880	.20910	.01280	.84280	-.07610	-.07380	.00320	-.01240	3.91530
.299	20.618	5.31420	.91550	.26320	.00740	.94950	-.08630	-.07630	.00340	-.01500	3.47880
.298	22.638	5.32420	1.01620	.33030	.00290	1.06980	-.09030	-.07470	.00380	-.01600	3.07670
.297	24.662	5.34740	1.10290	.40710	.00210	1.17220	-.09030	-.07610	.00280	-.01890	2.70950
.297	25.658	5.36410	1.12200	.44020	.00550	1.20200	-.08980	-.07420	.00090	-.01910	2.54870
.298	GRADIENT	.00666	.04403	.00128	.08021	.04483	-.00192	.00017	-.00006	-.00047	.87783

RUN NO. 269 Q RVL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	1.187	5.37510	-.00170	.04940	.02490	-.00070	.04940	-.08460	.00650	-.00380	-.03490
.596	2.204	5.37240	.04480	.04970	.02520	.04650	.04790	-.08080	.00690	-.00440	.90080
.596	4.262	5.37190	.14030	.05320	.02410	.14390	.04260	-.08570	.00590	-.00540	2.63850
.593	6.339	5.35290	.24150	.08130	.02160	.24680	.03430	-.08170	.00520	-.00590	3.93560
.593	8.421	5.33880	.34570	.07350	.01980	.35280	.02210	-.08370	.00520	-.00790	4.70480
.525	10.505	5.31520	.45360	.08120	.01750	.46280	.00740	-.08070	.00550	-.01070	4.97140
.593	12.591	5.30420	.57020	.12070	.01440	.58280	-.00650	-.08070	.00500	-.01150	4.72380
.596	14.675	5.31540	.66270	.16700	.01240	.68340	-.00630	-.07830	.00450	-.01140	3.96880
.596	16.769	5.32060	.75390	.22150	.01130	.78580	-.00540	-.07930	.00500	-.01200	3.40350
.594	18.885	5.34180	.86680	.29340	.00340	.91510	-.00280	-.08580	.00610	-.01060	2.92400
.594	20.994	5.35640	.96530	.36740	-.00370	1.03280	-.00280	-.08890	.00770	-.00830	2.62770
.593	23.075	5.36600	1.06100	.44370	-.00490	1.15080	-.00770	-.08440	.00840	-.00760	2.39140
.593	25.153	5.37820	1.11880	.51340	.01210	1.23090	-.01090	-.08480	.00790	-.00990	2.17940
.593	26.117	5.37890	1.05410	.51500	.00980	1.17310	-.00160	-.07280	.00390	-.01660	2.04690
.595	GRADIENT	-.00092	.04622	.00130	-.00070	.04707	-.00282	.00065	-.00024	-.00052	.86691

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + PROBES

(RET044) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300.

BETA =
 ANFLON =

8.000 ELEVON = .000
 .000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.295	1.185	8.35750	.00760	.04310	.01720	.00840	.04300	-.13210	.00950	-.00590	1.7530
.294	2.174	8.37590	.04940	.04370	.01670	.05100	.04180	-.13320	.00930	-.00670	1.13030
.295	4.182	8.37530	.13500	.04650	.01710	.13800	.03650	-.13070	.00970	-.00860	2.90260
.295	6.217	8.37270	.23100	.05400	.01540	.23550	.02850	-.13280	.00940	-.01040	4.28010
.298	8.253	8.37760	.31830	.06490	.01660	.32440	.01850	-.12770	.00870	-.01290	4.90540
.295	10.319	8.37200	.41950	.08020	.01530	.42690	.00370	-.12750	.00930	-.01600	5.23120
.295	12.372	8.37380	.52180	.10190	.01250	.53150	.01220	-.12730	.00928	-.01900	5.11940
.295	14.435	8.37670	.62130	.12930	.01170	.63400	.02970	-.12640	.00870	-.02040	4.80490
.296	16.477	8.36550	.72600	.16440	.00870	.73710	.04660	-.11900	.00740	-.02040	4.37970
.296	18.532	8.35780	.82970	.20950	.00480	.84750	.05310	-.12220	.00690	-.02250	3.93140
.295	20.574	8.36760	.92950	.26540	-.00010	.96350	.07810	-.12230	.00660	-.02540	3.50200
.294	22.587	8.36300	1.03160	.33370	-.00490	1.08070	.09820	-.12610	.00710	-.02800	3.09160
.294	24.589	8.40500	1.12170	.40940	-.01120	1.19030	.09470	-.13160	.00690	-.02760	2.74080
.294	25.580	8.42800	1.12580	.43560	-.00830	1.20350	.09320	-.11410	.00440	-.03230	2.58440
.293	GRADIENT	.00507	.04254	.00117	.00880	.04327	.00224	.00058	.00009	-.00091	.90627

RUN NO. 2577 0 RUN/L = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	1.188	8.42910	.03510	.04670	.02230	.00610	.04660	-.14230	.00988	-.00560	1.10940
.595	2.204	8.43240	.05040	.04750	.02240	.05220	.04250	-.13790	.01030	-.00670	1.06120
.595	4.236	8.42870	.14720	.05130	.02190	.15060	.04020	-.13630	.01050	-.00890	2.87250
.595	6.336	8.42550	.24900	.05900	.01970	.25400	.03120	-.13420	.01070	-.01120	4.21820
.594	8.417	8.43010	.35050	.07280	.01980	.35740	.02070	-.13450	.00970	-.01410	4.81260
.595	10.535	8.42330	.46330	.09210	.01500	.47230	.00590	-.13400	.01050	-.01770	5.02970
.595	12.641	8.41790	.58240	.12458	.00870	.59550	.00600	-.13400	.01020	-.01920	4.67810
.595	14.748	8.42180	.68010	.17090	.00640	.70120	.00790	-.13440	.01180	-.01860	3.98040
.596	16.829	8.40550	.77350	.22220	.00350	.80470	.01130	-.13480	.01180	-.01860	3.48150
.597	18.932	8.41200	.86498	.28730	.00150	.91150	.00830	-.13570	.01190	-.02080	3.00460
.594	21.020	8.42030	.95850	.36420	-.00470	1.03480	.00740	-.14180	.01320	-.01800	2.65940
.594	23.079	8.42720	1.05170	.43750	-.00470	1.13900	.00980	-.14300	.01250	-.01410	2.40020
.594	25.131	8.43860	1.10090	.50140	.01340	1.20960	.01360	-.14710	.01020	-.01230	2.19590
.595	26.100	8.44420	1.09140	.50340	.04530	1.16570	.01080	-.12350	.00640	-.02550	2.08550
.596	GRADIENT	.00037	.04644	.00155	-.00015	.04722	-.00216	.00178	.00021	-.00108	.89798

RUN NO. 2707 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = -5.000 ELEVON = 15.000
AILRON = .000 BEFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 956.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300.

RUN NO. 276/ 0 R/V/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.296	.194	-4.89690	.24440	.07198	-.11310	.24460	-.07100	.09198	-.00830	.00650	3.40040
.296	2.186	-4.89690	.33160	.07980	-.11350	.33448	-.06710	.09260	-.00830	.00780	4.15490
.296	4.186	-4.89440	.41708	.09180	-.11370	.42260	-.06110	.09120	-.00790	.00910	4.54240
.296	6.213	-4.88860	.50768	.10690	-.11408	.51620	-.05130	.08800	-.00790	.00980	4.75040
.296	8.252	-4.88380	.60460	.12610	-.11700	.61650	-.03800	.09080	-.00840	.01150	4.79380
.296	10.309	-4.87440	.69460	.14890	-.11670	.71000	-.02220	.08910	-.00830	.01420	4.66590
.296	12.365	-4.86240	.79160	.17890	-.11730	.81178	-.00520	.08700	-.00830	.01570	4.42470
.296	14.411	-4.84730	.88810	.21380	-.11580	.90650	-.01220	.08430	-.00860	.01740	4.12060
.296	16.451	-4.84530	.98690	.26120	-.11890	1.02040	-.02900	.08570	-.00800	.01900	3.77890
.296	18.516	-4.84660	1.09040	.31810	-.12350	1.13500	-.04460	.08700	-.00780	.01920	3.42770
.296	20.579	-4.85980	1.17830	.38120	-.12540	1.23710	-.05730	.08330	-.00700	.01940	3.09120
.296	22.625	-4.86660	1.25990	.45780	-.12770	1.34290	-.05290	.08970	-.00550	.01770	2.69340
.296	24.678	-4.86310	1.32030	.55690	-.12710	1.45970	-.05060	.09850	-.01010	.01300	2.32640
.296	25.688	-4.85820	1.38660	.68730	-.11930	1.5198	-.04670	.10300	-.00940	.01230	2.28230
.296	GRADIENT	.00063	.04324	.00499	-.00015	.04459	-.00246	.00018	.00010	.00065	.28605

RUN NO. 277/ 0 R/V/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.597	.238	-4.94770	.25130	.07630	-.11980	.25160	-.07520	.09270	-.00900	.00670	3.29490
.597	2.262	-4.92880	.34380	.08550	-.12020	.34690	-.07190	.08860	-.00860	.00800	4.01940
.597	4.305	-4.91990	.43810	.09880	-.12160	.44430	-.06960	.09000	-.00800	.01050	4.43550
.597	6.384	-4.91390	.54370	.11750	-.12580	.55340	-.05630	.08970	-.00810	.01100	4.62780
.597	8.471	-4.90240	.65890	.14220	-.13360	.67260	-.04350	.08960	-.00860	.01340	4.63490
.597	10.574	-4.88610	.76940	.17270	-.13770	.78510	-.02910	.08670	-.00830	.01050	4.00440
.599	12.672	-4.88270	.85940	.21460	-.13369	.88560	-.02090	.09320	-.01040	.08500	3.44460
.597	14.764	-4.89160	.92580	.26880	-.12410	.96370	-.02400	.10330	-.01000	.08200	2.94330
.596	16.850	-4.89420	.99480	.33790	-.12390	1.05010	-.03510	.10730	-.01070	.00490	2.63260
.596	18.973	-4.90900	.1.09220	.41490	-.12480	1.16770	-.03720	.11490	-.01130	.00080	2.35940
.596	21.077	-4.90820	1.16810	.48710	-.12480	1.26330	-.02940	.12680	-.01030	.00630	2.20430
.597	23.157	-4.91030	1.22000	.55350	-.10900	1.33940	-.03350	.08900	-.00560	.00920	1.98940
.598	25.170	-4.97670	1.2840	.56730	-.03510	1.26260	.03350	.09230	-.00590	.01090	1.87680
.597	26.194	-4.86900	1.08270	.57690	-.06650	1.22610	.04080	.00066	.00025	.00081	.28034
.597	GRADIENT	.00683	.04593	.00553	-.00044	.04738	-.00236	.00018	.00010	.00065	.28605

(RE7046) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITTER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -2.000 ELEVON = 15.000
A/RON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 275/ 0 RN/L = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.297	.175	-1.87260	.24660	.07340	-1.1300	.24690	.07460	.04340	-.00370	.00250	3.27230
.297	2.154	-1.84480	.33080	.08310	-1.1320	.33370	.07060	.04100	-.00390	.09290	3.97980
.297	4.160	-1.83540	.41180	.09380	-1.1320	.42060	.06350	.03820	-.00390	.00390	4.42120
.297	6.182	-1.83090	.50400	.10800	-1.1230	.51270	.05300	.03860	-.00360	.00430	4.65840
.297	8.226	-1.83530	.59660	.12710	-1.11500	.60860	.04040	.03720	-.00400	.00560	4.69590
.297	10.283	-1.83580	.69290	.15060	-1.1090	.70860	.02450	.04080	-.00410	.00630	4.60100
.297	12.354	-1.83580	.79170	.18140	-1.1090	.81220	.00780	.04010	-.00410	.00740	4.36410
.297	14.399	-1.83370	.88460	.21690	-1.1090	.91080	-.00980	.03750	-.00450	.00810	4.07800
.297	16.470	-1.83370	.98610	.26340	-1.1090	1.02030	-.02700	.04120	-.00450	.00960	3.74410
.297	18.540	-1.84450	1.08820	.31890	-1.1090	1.13340	-.05730	.04150	-.00430	.00970	3.41250
.297	20.617	-1.84540	1.19010	.38650	-1.1290	1.25000	-.05000	.04940	-.00760	.00830	3.07890
.297	22.695	-1.84010	1.24960	.46740	-1.1290	1.33320	-.04270	.04450	-.00530	.00430	2.67370
.297	24.695	-1.81980	1.29750	.54950	-1.1090	1.40840	-.03830	.04450	-.00530	.00530	2.36080
.297	25.695	-1.80940	1.30980	.58740	-1.1090	1.43500	-.03830	.04450	-.00530	.00240	2.22980
.297	GRADIENT	.00933	.04220	.00462	.00020	.04359	-.00275	-.00130	-.00085	.00035	.28811

RUN NO. 278/ 0 RN/L = 4.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.596	.184	-1.85200	.25050	.07900	-1.11870	.25080	.07228	.03980	-.00420	.00250	3.17160
.596	2.229	-1.85810	.34500	.08840	-1.11990	.34820	.07490	.04230	-.00340	.00350	3.90510
.597	4.284	-1.84120	.43830	.10080	-1.12030	.44460	.06780	.03870	-.00300	.00380	4.34660
.596	6.363	-1.83070	.53790	.11810	-1.12260	.54770	.05780	.03540	-.00320	.00480	4.55330
.596	8.455	-1.83550	.65100	.14210	-1.13000	.66480	.04490	.03770	-.00370	.00550	4.57990
.596	10.563	-1.82730	.76320	.17320	-1.13480	.78200	.03030	.03930	-.00330	.00620	4.40690
.598	12.667	-1.82650	.86250	.21770	-1.13660	.88920	.02320	.04640	-.00330	.00140	3.96250
.597	14.741	-1.82790	.94820	.27120	-1.12290	.95700	.02860	.04670	-.00330	.00060	3.38630
.597	16.873	-1.87830	.99820	.33970	-1.12240	1.04620	.03770	.05030	-.00340	.00160	2.91490
.596	18.999	-1.87340	1.09530	.42030	-1.12500	1.17250	.04080	.05650	-.00370	.00310	2.63610
.596	21.118	-1.86350	1.17340	.49720	-1.12500	1.27340	.04110	.06000	-.00330	.00640	2.35950
.597	23.191	-1.85330	1.22630	.56510	-1.10620	1.34870	.03660	.06760	-.00680	.00840	2.16990
.597	25.192	-1.81920	1.13070	.57520	-.02690	1.26790	.03920	.04690	-.00356	.00070	1.95970
.598	26.189	-1.80400	1.06910	.57560	-.00160	1.21340	.04530	.04340	-.00450	.00140	1.63750
.597	GRADIENT	.00264	.04580	.00532	-.00039	.04727	-.00254	-.00027	.00029	.00032	.28651

(RE70471) (02 AUG 78)

TABULATED DATA - 0A181 (ARC 11-97-87-094)
ARC 11-97-87-094 0A181 ORBITER * PROBES

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AIRCON = .000 BDFAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1078.8888 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 938.8888 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 274 0 RUN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.298	.143	.18390	.24230	.07650	-.11030	.24290	.07600	.00690	-.00130	.00010	3.16180
.298	2.148	.20190	.32820	.08390	-.11060	.33090	.07150	.00770	-.00110	.00040	3.91050
.297	4.160	.20270	.41500	.09560	-.11090	.42390	.06520	.00760	-.00130	.00070	4.34090
.298	6.183	.20680	.50200	.10910	-.11070	.51080	.05440	.00600	-.00120	.00110	4.60190
.297	8.225	.21270	.59760	.12790	-.11260	.60970	.04110	.00790	-.00120	.00150	4.67140
.297	10.265	.21230	.69130	.15060	-.11400	.70710	.02500	.00650	-.00140	.00170	4.59000
.297	12.304	.21050	.78500	.17980	-.11330	.80620	.00820	.00720	-.00100	.00160	4.37090
.297	14.360	.20980	.88190	.21650	-.11400	.90800	.00900	.00740	-.00110	.00230	4.07270
.297	16.428	.20870	.98540	.26320	-.11640	1.01960	.02630	.00830	-.00150	.00300	3.74470
.297	18.489	.20740	1.08400	.31720	-.11900	1.12860	.04300	.01020	-.00130	.00270	3.41770
.297	20.571	.20600	1.17940	.38250	-.12110	1.23860	.05630	.00930	-.00140	.00130	3.09300
.297	22.637	.20410	1.24450	.46270	-.12110	1.32670	.05150	.01820	-.00480	.00290	2.66360
.298	24.665	.20240	1.29410	.55060	-.11660	1.40580	.03970	.01820	-.00230	.00130	2.35060
.298	25.681	.20090	1.30800	.64530	-.10980	1.43250	.03940	.01630	-.00240	.00140	2.23490
.298	GRADIENT	.00468	.04299	.00473	-.00015	.04441	.00269	.00017	-.00000	.00015	.29348

RUN NO. 279 0 RUN/L = 4.16 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.596	.178	.20810	.24680	.08000	-.11720	.24710	.07930	.00740	-.00110	.00030	3.08430
.600	2.230	.20680	.34150	.08890	-.11820	.34470	.07550	.00660	-.00080	.00050	3.84330
.592	4.285	.22740	.43180	.10080	-.11740	.43810	.06820	.00870	-.00040	.00070	4.28430
.594	6.363	.23740	.52980	.11740	-.11990	.53950	.05880	.00500	-.00080	.00140	4.51120
.595	8.454	.24040	.64540	.14180	-.12720	.65920	.04530	.00760	-.00040	.00180	4.54990
.597	10.573	.24040	.76020	.17320	-.13420	.77980	.03080	.00540	-.00040	.00140	4.38670
.595	12.685	.23760	.86630	.22040	-.13330	.89350	.02480	.01020	-.00310	.00350	3.93180
.594	14.750	.23530	.96160	.27170	-.12090	.95510	.02950	.01390	-.00290	.00440	3.37210
.595	16.873	.23330	1.09260	.33700	-.11890	1.04170	.03660	.01160	-.00210	.00540	2.92650
.595	18.963	.23090	1.18320	.40960	-.12580	1.18920	.04060	.01900	-.00230	.00540	2.61740
.595	21.088	.22690	1.24570	.49950	-.12680	1.28370	.04040	.02060	-.00250	.00690	2.36820
.595	23.170	.21990	1.24570	.57150	-.10950	1.37000	.03520	.02580	-.00220	.00340	2.17980
.595	25.169	.22990	1.13020	.67500	-.08480	1.26740	.03980	.02580	-.00250	.00060	1.96250
.59E	GRADIENT	.00470	.04584	.00586	-.00005	.04650	.00270	.00039	-.00017	.00010	.29215

TABULATED DATA - 0A161 (ARC 11-97-97-084)
ARC 11-97-97-084 0A161 ORBITER + PROBES

REFERENCE DATA
SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = 15.000
AIRLON = .000 BOFLAP = -2.170

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.298	.142	2.26150	.24030	.07620	-.11220	.24090	.07560	-.02710	.00130	-.00240	3.15520
.297	.156	2.26480	.32700	.08420	-.11280	.32990	.07180	-.02760	.00120	-.00280	3.68420
.298	4.168	2.27720	.41200	.09530	-.11220	.41780	.06310	-.02570	.00110	-.00260	4.32180
.297	6.204	2.28540	.50370	.11000	-.11300	.51270	.05490	-.02450	.00150	-.00280	4.58050
.298	8.246	2.29330	.59520	.12780	-.11500	.60740	.04110	-.02760	.00130	-.00280	4.65660
.299	10.297	2.31030	.69350	.15110	-.11630	.70940	.02470	-.02650	.00170	-.00340	4.59080
.297	12.397	2.30980	.79270	.18210	-.11580	.81330	.00770	-.02330	.00190	-.00440	4.35230
.298	14.497	2.27160	.88510	.21830	-.11870	.91150	-.01020	-.02470	.00140	-.00410	4.05470
.297	16.577	2.25340	.99420	.26720	-.11870	1.02910	-.02760	-.02120	.00120	-.00340	3.72450
.297	18.630	2.24440	1.08810	.31910	-.11990	1.13110	-.04450	-.02190	.00090	-.00390	3.40320
.297	20.678	2.23970	1.18210	.38500	-.12440	1.24200	-.05720	-.02220	.00020	-.00550	3.07010
.297	22.708	2.25880	1.25420	.46560	-.12290	1.33570	-.05450	-.01730	-.00310	-.00950	2.69410
.297	24.726	2.27210	1.31220	.55330	-.11990	1.42330	-.04630	-.01530	-.00260	-.00760	2.37460
.297	26.730	2.28310	1.33010	.59760	-.11500	1.45770	-.03910	-.02200	-.00080	-.00490	2.22510
.297	GRADIENT	.00330	.04264	.00474	-.00000	.04404	-.0025	.00033	-.06005	-.00005	.28978

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.595	.196	2.25620	.24450	.07920	-.11720	.24480	.07840	-.03030	.00170	-.00230	3.08570
.595	2.244	2.28440	.33978	.08850	-.11830	.34300	.07510	-.03080	.00180	-.00270	3.83940
.594	4.304	2.29860	.43520	.10190	-.11950	.44160	.06900	-.03090	.00160	-.00270	4.26900
.594	6.386	2.30480	.53950	.11850	-.12210	.54540	.05820	-.03040	.00170	-.00230	4.52070
.595	8.493	2.30350	.64960	.14238	-.12560	.66350	.04480	-.02590	.00230	-.00240	4.56380
.594	10.608	2.30700	.76730	.17478	-.13590	.78630	.03050	-.03250	.00280	-.00380	4.39150
.583	12.737	2.28490	.87580	.22440	-.13810	.90310	.02290	-.02660	.00180	-.00310	3.95490
.595	14.827	2.30760	.91210	.27410	-.12040	.95180	.03160	-.02280	.00090	-.00310	3.32750
.597	16.976	2.31070	.98640	.33810	-.11780	1.04210	.03540	-.02580	.00070	-.00440	2.91770
.598	19.093	2.29780	1.10670	.42660	-.13440	1.18540	.04120	-.02900	.00160	-.00430	2.59440
.597	21.192	2.28910	1.19500	.50870	-.12770	1.29440	.03830	-.02860	.00190	-.00300	2.36970
.593	23.251	2.38110	1.26830	.58650	-.11590	1.39450	.03260	-.03710	.00250	-.00230	2.18490
.596	25.216	2.30670	1.12000	.57230	-.02280	1.25710	.04060	-.01760	-.00130	-.00850	1.95700
.596	26.189	2.31470	1.07760	.57960	.00020	1.22280	.04450	-.01690	-.00030	-.00520	1.85940
.595	GRADIENT	.01032	.04642	.00553	-.00066	.04791	-.00223	-.00015	-.00002	-.00010	.28799

(1927049) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-87-87-09*)

ARC 11-87-87-09* 0A161 ORBITER + PROBES

PARAMETRIC DATA

BETA = 5.000 ELEVON = 15.000
ANLON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XRRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YRRP = .0000 IN. YO
BREF = 936.6800 IN. ZRRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 272/ 0 RN/L = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CB	L/D
.297	.178	5.29790	.23930	.07360	.11580	.32860	.07290	-.07950	.00610	-.00510	3.25150
.298	2.175	5.33200	.32600	.08220	.11680	.32890	.06970	-.08080	.00610	-.00510	3.96770
.298	4.195	5.34190	.41670	.09260	.11780	.42240	.06190	-.07990	.00590	-.00590	4.49750
.297	6.235	5.34570	.50958	.10930	.11890	.51840	.05330	-.07890	.00520	-.00590	4.66920
.297	8.278	5.35420	.60220	.12830	.12000	.61440	.04020	-.08220	.00570	-.00820	4.69460
.297	10.351	5.34900	.69480	.15180	.11980	.71080	.02450	-.07940	.00590	-.01000	4.57690
.299	12.419	5.35440	.78960	.18030	.12070	.80990	.00620	-.07650	.00580	-.01150	4.38080
.299	14.496	5.34030	.88280	.21660	.11950	.90890	-.01130	-.07780	.00520	-.01300	4.07590
.299	16.558	5.32610	.98780	.26350	.12240	1.02190	-.02890	-.07510	.00440	-.01330	3.74840
.298	18.623	5.32040	1.08740	.31880	.12280	1.13230	.04610	-.07610	.00370	-.01450	3.41070
.297	20.670	5.32220	1.18240	.38380	.12500	1.24180	.05830	-.07340	.00200	-.01670	3.08090
.297	22.687	5.32750	1.26670	.46500	.12700	1.34808	.05960	-.07340	.00150	-.01970	2.72430
.297	24.708	5.34750	1.32540	.54880	.12480	1.43350	.05550	-.08480	.00450	-.01560	2.41530
.297	25.700	5.35940	1.32740	.58900	.11890	1.45150	-.04490	-.08770	.00720	-.01220	2.25360
.298	GRADIENT	.01094	.04416	.00473	.00050	.04551	-.00274	-.00010	-.00005	-.00035	.31008

RUN NO. 281/ 0 RN/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CB	L/D
.596	.213	5.34470	.24960	.07710	.12150	.24980	.07610	-.08220	.00680	-.00550	3.23870
.595	2.259	5.36180	.33960	.08640	.12180	.34280	.07280	-.08150	.00680	-.00660	3.95300
.594	4.327	5.37390	.44180	.10070	.12310	.44820	.06710	-.08758	.00640	-.00720	4.38540
.594	6.412	5.37270	.54070	.11460	.12690	.55050	.05680	-.08500	.00610	-.00690	4.58330
.597	8.516	5.37360	.63490	.14260	.13420	.66860	.04410	-.08550	.00630	-.00730	4.59230
.596	10.640	5.35650	.78820	.17450	.13980	.78720	.02970	-.08420	.00670	-.01030	4.40160
.597	12.740	5.36920	.86600	.21940	.13930	.88310	.02300	-.08480	.00660	-.00960	3.94730
.594	14.826	5.38450	.92520	.27448	.12800	.96460	.02850	-.07930	.00520	-.01260	3.37140
.596	16.928	5.38240	1.00330	.33900	.12600	1.09650	.03220	-.08570	.00550	-.01260	2.95970
.597	19.049	5.38870	1.09970	.41670	.13300	1.17550	.03490	-.09120	.00780	-.00730	2.63470
.597	21.148	5.39620	1.18240	.49380	.12850	1.28090	.03400	-.10260	.00920	-.00300	2.39450
.596	23.218	5.40140	1.25960	.57080	.12030	1.38260	.02820	-.10960	.01070	-.00260	2.20610
.597	25.195	5.39920	1.32550	.65050	.14220	1.45150	.03250	-.07250	.00730	-.01930	1.99400
.596	26.157	5.40820	1.09250	.58190	.14220	1.29350	.04070	-.08920	.00480	-.01140	1.87740
.596	GRADIENT	.00710	.04672	.00574	.00068	.04820	-.00213	-.00129	-.00010	-.00041	.27861

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OF POOR QUALITY

(RE7099) (02 AUG 75)

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. XMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RUN NO. 24/ 0 RN/L = 4.03 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.560	.142	-4.91900	-0.04810	.04900	.02730	-0.04800	.04920	.08750	-.00680	.00360	-.98110
.561	2.164	-4.92050	.04350	.04900	.02750	.04350	.04740	.08860	-.00560	.00510	.88630
.562	4.208	-4.92660	.13780	.05260	.02720	.14130	.04230	.08690	-.00640	.00580	2.62230
.563	6.260	-4.91930	.23580	.06040	.02510	.24100	.03430	.08330	-.00610	.00680	3.90270
.564	8.337	-4.91250	.34050	.07230	.02280	.34740	.02210	.08530	-.00680	.00550	4.71070
.565	10.434	-4.90270	.44450	.08930	.02180	.45330	.00730	.08330	-.00690	.01270	4.97850
.566	12.529	-4.87450	.55590	.11480	.02000	.56850	-.00870	.08050	-.00640	.01470	4.65120
.567	14.626	-4.86210	.66650	.15700	.01630	.68460	-.01640	.08450	-.00770	.01340	4.24600
.568	16.707	-4.86300	.76820	.21420	.01260	.78970	-.01330	.08200	-.00900	.00900	3.54840
.569	18.821	-4.89620	.85200	.28210	.00810	.89750	-.00780	.09070	-.00860	.00930	3.02820
.570	20.918	-4.88780	.94000	.35320	.00500	1.00410	-.08570	.09310	-.08830	.00920	2.66160
.571	23.003	-4.89580	1.01510	.41980	.00570	1.09860	-.01020	.09980	-.00790	.00370	2.41770
.572	25.083	-4.89100	1.09710	.48620	.01080	1.20400	-.01570	.11070	-.00680	-.00130	2.21110
.573	GRADIENT	-.00187	.04581	.00089	-.00002	.04665	-.00170	-.00015	.00010	.00054	.88791

RUN NO. 33/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.730	.115	-4.99010	-0.05690	.05150	.03370	-0.05680	.05170	.09170	-.00770	.00330	-1.10470
.731	2.170	-4.94910	.04160	.05190	.03330	.04350	.05030	.08930	-.00780	.00510	.80020
.732	4.236	-4.95170	.14270	.05560	.03250	.14640	.04490	.08570	-.00760	.00600	2.56690
.733	6.337	-4.94800	.25260	.06510	.02780	.25830	.03680	.08970	-.00650	.00720	3.87970
.734	8.452	-4.93230	.36540	.08230	.02360	.37358	.02710	.08620	-.00740	.00880	4.43740
.735	10.577	-4.92540	.47390	.11210	.01870	.48640	.02320	.08570	-.00700	.01030	4.22700
.736	12.697	-4.90740	.57010	.15030	.01780	.58920	.02130	.08750	-.00710	.01600	3.79300
.737	GRADIENT	-.00039	.04644	.00097	-.00020	.04932	-.00165	-.00146	.00062	.00066	.65153

(RE7055) (02 AUG 75)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 337/ 0 RV/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.956	.012	-5.57200	-.01890	.13970	-.00830	-.01880	-.13970	.08540	-.60400	.00240	-.13510
1.956	2.012	-5.57320	.07110	.13950	-.00710	.07590	-.13690	.08080	-.00310	.00270	.50930
1.956	6.165	-5.57320	.25930	.16010	-.03710	.27400	.13140	.07380	.00020	.00290	1.61350
1.956	8.123	-5.57270	.34590	.18070	-.04800	.36820	.12930	.07180	.00120	.00350	1.91350
1.956	10.305	-5.56990	.43640	.20940	-.06980	.46680	.12790	.06950	.00170	.00360	2.08410
1.956	12.346	-5.57220	.51530	.24110	-.08590	.55500	.12540	.07170	.00270	.00370	2.13700
1.956	14.441	-5.57420	.59460	.28020	-.07120	.64570	.12310	.07210	.00460	.00320	2.12210
1.956	16.583	-5.57480	.67380	.32500	-.06860	.73850	.11920	.07030	.00710	.00320	2.07338
1.956	18.678	-5.57670	.75340	.37610	-.08080	.83410	.11500	.06890	.01030	.00290	2.00320
1.956	20.799	-5.57430	.80380	.42550	-.08820	.92550	.10740	.06160	.01650	.00370	1.82050
1.956	22.859	-5.57430	.86030	.46180	-.08490	1.01750	.10610	.05820	.01930	.00390	1.70920
1.956	25.887	-5.57570	.92400	.50980	-.08430	1.11530	.10470	.06240	.02090	.00400	1.65940
1.956	GRADIENT	-.00060	.04499	-.00010	-.00770	.04734	-.00142	-.00230	.00045	.00015	.32215

RUN NO. 340/ 0 RV/L = 3.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.956	-.020	-5.93150	-.01980	.12810	-.01150	-.01990	.12800	.09250	-.00138	.00240	-.15490
1.956	1.955	-5.92900	.04990	.12730	-.01970	.05380	.12560	.08760	-.00050	.00230	.38880
1.956	4.020	-5.92790	.12370	.13170	-.02680	.13260	.12270	.08340	.00090	.00200	.93920
1.956	6.082	-5.92800	.19400	.14110	-.03390	.20790	.11980	.07958	.00280	.00188	1.37450
1.956	8.145	-5.92780	.26430	.15780	-.03898	.28390	.11880	.07498	.00520	.00160	1.67470
1.956	10.202	-5.92520	.33470	.17860	-.04190	.36110	.11640	.07140	.00580	.00210	1.87540
1.956	12.239	-5.92480	.40370	.20400	-.04500	.43770	.11380	.07170	.00710	.00240	1.97830
1.956	14.332	-5.92330	.47490	.23530	-.04740	.51840	.11040	.06900	.00870	.00270	2.01850
1.956	16.464	-5.92260	.54490	.27180	-.04980	.59860	.10620	.06590	.01120	.00280	2.00500
1.956	18.548	-5.92340	.61570	.31420	-.05450	.68360	.10210	.06320	.01440	.00260	1.95930
1.956	20.569	-5.92080	.68410	.36340	-.05780	.78820	.09900	.05950	.01688	.00280	1.88260
1.956	22.648	-5.91880	.74910	.41730	-.06100	.89200	.09570	.05448	.01820	.00300	1.79490
1.956	24.710	-5.91810	.81570	.47810	-.06370	.94090	.09330	.05098	.01988	.00380	1.70630
1.956	26.733	-5.91490	.84720	.51030	-.06568	.98480	.09180	.05020	.02000	.00400	1.66040
1.956	GRADIENT	.00089	.03552	.00090	-.00428	.03775	-.00131	-.00225	.00055	-.00010	.27079

(RE7055) (02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ALLRON = .300 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITTER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 25V 0 RV/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.550	.090	-1.84650	-.05450	.05140	.03610	-.05450	.05150	.03460	-.00260	.00120	-1.06010
.551	2.125	-1.84910	.03890	.05150	.03000	.04070	.05880	.03290	-.00280	.00170	2.44950
.551	4.171	-1.84910	.12340	.05450	.02960	.13700	.04460	.03390	-.00240	.00170	3.77210
.551	6.233	-1.84630	.22970	.06090	.02810	.23500	.03560	.03430	-.00200	.00240	4.64010
.551	8.308	-1.84710	.33390	.07200	.02450	.34080	.02300	.03380	-.00260	.00330	4.93020
.551	10.404	-1.84630	.44170	.08960	.02280	.45070	.00830	.03230	-.00290	.00520	4.79410
.551	12.534	-1.84400	.54620	.11390	.02390	.55790	.00710	.03450	-.00260	.00810	4.20030
.551	14.605	-1.79950	.65970	.15700	.02040	.67790	-.01440	.03620	-.00330	.00530	3.50740
.550	16.721	-1.86270	.74740	.21310	.01690	.77710	-.00480	.04420	-.00450	.00210	2.98480
.550	18.835	-1.86540	.84140	.28180	.01200	.88700	-.00060	.04140	-.00330	.00170	2.61750
.551	20.941	-1.85960	.94340	.35690	.00420	1.00010	-.00120	.04450	-.00240	.00050	2.36040
.553	23.053	-1.84930	1.04840	.43140	.00900	1.10600	-.00510	.04270	-.00070	.00450	2.15930
.550	25.082	-1.82490	1.07620	.49830	.02250	1.18590	-.00510	.03980	-.00020	.00380	2.06720
.551	26.051	-1.78350	1.07780	.52140	.03790	1.19720	-.00510	.03980	-.00020	.00380	1.95990
GRADIENT		.00167	.04604	.00076	-.00012	.04692	-.00163	-.00017	-.00065	.00012	

RUN NO. 338/ 0 RV/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.556	.031	-2.54540	-.01920	.13940	.01030	-.01910	.13940	.03300	-.00088	.00100	1.13770
1.555	2.019	-2.54570	.07160	.13970	-.00570	.07650	.13710	.03190	-.00040	.00110	1.51280
1.555	4.098	-2.54550	.16800	.14700	-.02190	.17810	.13460	.03040	.00020	.00140	1.94320
1.556	6.170	-2.54500	.26070	.16110	-.03680	.27650	.13220	.02900	.00078	.00140	1.61780
1.556	8.240	-2.54650	.35150	.18280	-.04980	.37410	.13050	.03680	.00090	.00170	1.92370
1.556	10.306	-2.54430	.43370	.20930	-.05780	.46420	.12880	.02990	.00100	.00150	2.06630
1.556	12.347	-2.54450	.51210	.24200	-.06390	.55200	.12690	.03130	.00120	.00140	2.11620
1.556	14.439	-2.54020	.59200	.28040	-.07230	.64320	.12390	.03230	.00180	.00150	2.11140
1.556	16.581	-2.53970	.67230	.32700	-.07840	.73760	.12150	.03330	.00210	.00140	2.05610
1.556	18.676	-2.53640	.75210	.37870	-.08270	.83370	.11790	.03248	.00380	.00140	1.88620
1.556	20.709	-2.53390	.83100	.43630	-.08720	.93150	.11420	.02980	.00540	.00160	1.50480
1.556	22.795	-2.53290	.90050	.49930	-.09820	1.02360	.11140	.02720	.00700	.00160	1.80350
1.556	24.850	-2.53210	.96330	.56700	-.08830	1.11240	.10950	.02620	.00870	.00180	1.69890
1.556	26.891	-2.52850	.99580	.60390	-.08888	1.16050	.10860	.02350	.00948	.00170	1.65060
GRADIENT		-.00002	.04603	.00188	-.00792	.04849	-.00118	-.00064	.00025	.00010	3.1487

TABULATED DATA - 04181 (ARC 11-57-87-084)

(RE7057) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.550	.085	1.9720	-.05790	.05230	.03180	-.05780	.05240	.00290	-.00010	-.00010	-1.10720
.550	2.122	.20750	-.03380	.05170	.03210	-.03570	.05040	.00380	-.00020	-.00020	.65380
.551	4.171	.20970	.12920	.05440	.03210	.13290	.04490	.00380	-.00020	-.00020	2.37480
.550	6.231	.20960	.22880	.05120	.03020	.23410	.03600	.00240	-.00030	-.00010	3.73790
.551	8.311	.21690	.33280	.07210	.02620	.33980	.03980	.00350	-.00020	-.00010	4.61460
.552	10.397	.21480	.43760	.08900	.02500	.44650	.00850	.00340	-.00000	-.00020	4.91970
.551	12.478	.21150	.54330	.11330	.02600	.55490	-.00670	.00420	-.00020	-.00040	4.79310
.551	14.583	.22740	.65130	.15470	.02220	.66930	-.01420	.00280	-.00110	-.00000	4.20940
.551	16.688	.22060	.74300	.21160	.02020	.77250	-.01070	.00810	-.00168	-.00230	3.51100
.559	18.794	.21940	.84300	.28170	.00490	.88880	-.00490	.00740	-.00400	-.08250	2.98260
.559	20.901	.20740	.93620	.35730	.00490	1.00240	-.00020	.00588	-.00620	-.00380	2.61990
.559	22.986	.20560	1.02260	.43220	.00920	1.11010	-.00150	.01230	-.00000	-.00590	2.36620
.580	25.087	.21320	1.08600	.50250	.02290	1.19660	-.00500	.00900	-.00010	-.00450	2.16130
.581	26.046	.16600	1.08100	.52320	.04120	1.20100	-.00450	.01120	-.00010	-.00350	2.06530
	GRADIENT	.00305	.04578	.00051	.00007	.04667	-.00184	.00017	-.00002	-.00002	.85214

RUN NO. 25/ 0 RVAL = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.996	-.323	-.84120	-.02370	.12850	-.00590	-.02370	.12840	.00380	-.00090	-.00020	-1.18430
1.996	1.955	-.84220	.04980	.12700	-.01550	.05410	.12820	.00450	-.00060	-.00020	.39250
1.996	4.020	-.84280	.12320	.13180	-.02380	.13220	.12280	.00460	-.00050	-.00000	.93930
1.996	6.080	-.84260	.19300	.14140	-.03160	.20690	.12010	.00450	-.00040	-.00010	1.36520
1.996	8.139	-.84160	.26030	.15700	-.03570	.27990	.11860	.00430	-.00000	-.00000	1.65750
1.996	10.197	-.84270	.33220	.17850	-.04030	.35650	.11680	.00610	-.00020	-.00000	1.86140
1.996	12.231	-.84080	.39930	.20250	-.04270	.43310	.11330	.00580	-.00010	-.00010	1.97150
1.996	14.321	-.83910	.47280	.23450	-.04580	.51610	.11030	.00640	-.00030	-.00010	2.01580
1.996	16.459	-.83750	.54750	.27330	-.04940	.60250	.10700	.00700	-.00010	-.00010	2.08337
1.996	18.595	-.83590	.61910	.31740	-.05230	.68790	.10400	.00790	-.00020	-.00010	1.95040
1.996	20.746	-.83030	.75440	.42050	-.05950	.85810	.09760	.00850	-.00060	-.00010	1.79400
1.996	22.846	-.82670	.81830	.48880	-.06390	.94440	.09480	.00870	-.00080	-.00000	1.70190
1.996	24.706	-.82420	.86360	.51510	-.06640	.98260	.09350	.00860	-.00070	-.00000	1.63700
1.996	25.731	-.00040	.03633	.00063	-.00442	.04667	-.00138	.00020	-.00000	-.00805	.27685
	GRADIENT										

RUN NO. 342/ 0 RVAL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

(RE7858) (02 AUG 78)

TABULATED DATA - 00151 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0151 ORBITER

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 277 0 RNL = 4.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
.551	.100	2.25050	-.05720	.03070	-.05720	.05160	-.03570	.00200	-.00170	-1.11120
.561	2.133	2.28040	.03330	.03110	.03510	.05010	-.03580	.00200	-.00230	.64800
.561	4.183	2.29430	.12840	.03040	.13210	.04490	-.03040	.00210	-.00290	2.39870
	GRADIENT	.01089	.04543	-.00007	.04633	-.00184	.00130	.00002	-.00029	.64923

RUN NO. 343 0 RNL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CLM	CN	CA	CY	CYN	CBL	L/D
1.996	-.027	1.22520	-.02100	-.00598	-.02110	.12870	.03950	-.00030	-.00070	1.63500
1.996	1.954	1.23800	.05200	-.01950	.05840	.12650	-.02990	-.00098	-.00060	.40530
1.996	4.026	1.22270	.12350	-.02400	.13250	.12820	-.02600	-.00150	-.00060	.93390
1.996	6.083	1.22200	.19400	-.03150	.20798	.12050	-.02400	-.00200	-.00050	1.36780
1.996	9.141	1.23130	.26170	-.03660	.28130	.11650	-.02398	-.00240	-.00030	1.65840
1.996	10.202	1.26820	.33110	-.03950	.35740	.11670	-.02398	-.00270	-.00070	1.85840
1.996	12.239	1.26760	.40300	-.04300	.43700	.11350	-.02410	-.00320	-.00100	1.97960
1.996	14.324	1.26890	.47530	-.04650	.51870	.10700	-.02260	-.00400	-.00110	2.01870
1.996	16.460	1.26700	.54540	-.04990	.60030	.10390	-.01988	-.00480	-.00120	1.99960
1.996	18.545	1.27830	.61420	-.05300	.68270	.10110	-.01790	-.00560	-.00110	1.94500
1.996	20.561	1.28240	.68020	-.05600	.75440	.10110	-.01500	-.00630	-.00108	1.87320
1.996	22.641	1.27670	.74740	-.05920	.85070	.09800	-.01210	-.00770	-.00108	1.78850
1.996	24.702	1.27740	.81450	-.06398	.94010	.09470	-.01110	-.00820	-.00110	1.70080
1.996	25.728	1.28950	.84540	-.06450	.98320	.09280	-.00980	-.00840	-.00130	1.65840
	GRADIENT	-.00066	.03565	-.00422	.03789	-.00135	.00111	-.00030	-.00002	2.7067

(RE70599) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
AIRLON = -7.17E

BETA = .000
AIRLON = -7.17E

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0080 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 51/ 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
.900	.076	5.37850	.05970	.07068	.03770	.05960	.07060	.10110	.01020	.00400	.00400
.901	2.1771	5.39730	.06060	.07250	.02830	.06338	.07070	.10170	.01000	.00200	.03690
.902	4.282	5.40810	.17610	.08310	.02080	.18180	.08970	.10060	.00920	.00310	2.11870
.903	6.406	5.40610	.28040	.10198	.01810	.29000	.07000	.09510	.00780	.00540	2.75120
.904	8.525	5.41360	.37520	.12480	.01880	.38960	.06780	.09340	.00560	.00740	3.00710
.905	10.654	5.40090	.46980	.15780	.01700	.48180	.06900	.08710	.00320	.00730	2.93560
.906	12.754	5.40360	.55500	.19780	.00950	.56500	.06990	.08370	.00110	.00810	2.80660
.907	14.939	5.42010	.63300	.24780	.00500	.69510	.07110	.08460	.00470	.00710	2.63580
.908	17.079	5.43580	.74450	.30130	.00400	.80020	.06940	.07720	.01020	.00690	2.47100
.909	19.233	5.45040	.83480	.36570	.00500	.90870	.07030	.07390	.01540	.00860	2.28270
.910	21.358	5.45550	.89410	.42980	.00900	.98740	.07000	.07090	.01870	.01260	2.10480
.911	23.446	5.45730	.94738	.48390	.06490	1.03910	.07898	.05258	.02710	.02540	1.89580
.912	25.472	5.45300	.90720	.52270	.09730	1.04380	.08170	.05850	.01840	.01590	1.73570
.913	26.414	5.44810	.92110	.54900	.10580	1.06920	.08198	.06630	.01280	.01320	1.57780
.914	26.703	.06703	.05608	.00297	.00402	.05739	.00021	.00012	.00024	.00089	.70488

GRADIENT

RUN NO. 333/ 0 RV/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CBL	L/D
1.750	.075	4.73020	.04600	.13580	.00080	.01610	.13580	.08410	.00030	.00240	.17750
1.751	1.917	4.78760	.06718	.13530	.01350	.07168	.13390	.08000	.00110	.00240	.49620
1.752	3.986	4.78680	.15270	.14100	.02550	.16210	.13000	.07548	.00260	.00230	1.08290
1.753	6.048	4.78250	.23110	.15250	.03480	.24590	.12730	.07148	.00418	.00220	1.51320
1.754	8.116	4.78360	.30988	.17080	.04288	.33080	.12330	.06970	.00540	.00220	1.81450
1.755	10.172	4.78750	.38610	.19440	.04900	.41940	.12320	.06840	.00820	.00270	1.98500
1.756	12.211	4.79080	.46276	.22398	.05540	.49960	.12090	.06540	.00760	.00290	2.06880
1.757	14.335	4.79870	.51350	.30010	.06370	.67330	.11430	.06010	.01180	.00310	2.04410
1.758	16.435	4.80260	.60870	.34620	.06720	.76300	.10950	.05570	.01460	.00290	1.98900
1.759	18.525	4.80940	.69870	.39780	.07200	.85070	.10600	.05230	.01750	.00300	1.90920
1.760	20.545	4.81330	.75940	.43750	.07470	.94098	.10350	.54000	.01990	.00350	1.81110
1.761	22.630	4.82038	.82860	.52090	.07760	1.02880	.10040	.04970	.02160	.00370	1.71400
1.762	24.689	4.81870	.89280	.55670	.07880	1.07670	.09840	.04980	.02500	.00390	1.66500
1.763	25.716	.00084	.04154	.00129	.00613	.04388	.00143	.00222	.00071	.00002	.29234

GRADIENT

(RE7059) (02 AUG 78)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0080 IN. ZO
SCALE = .0300

RUN NO. 344/ 0 RV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
1.996	-.045	4.27130	-.01810	1.2750	-.01850	-.01820	1.2750	-.08830	.00270	-.00260	-.14200
1.996	1.960	4.26700	.05550	1.2700	-.01900	.05980	1.2500	-.08200	.00150	-.00240	-.43720
1.996	4.016	4.25280	.12430	1.3168	-.02610	.13330	1.2600	-.07598	-.00110	-.00220	-.94450
1.996	6.083	4.25810	.19580	1.4180	-.03300	.20980	1.2020	-.07320	.00198	-.00220	1.38150
1.996	8.143	4.25330	.26530	1.5330	-.03750	.28498	1.1820	-.06980	-.00350	-.00210	1.87590
1.996	10.198	4.26710	.33330	1.7790	-.04120	.35950	1.1600	-.06720	.00450	-.00250	1.87400
1.996	12.240	4.26480	.40480	2.0420	-.04460	.43890	1.1390	-.06400	-.00580	-.00280	1.98180
1.996	14.321	4.26880	.47630	2.3470	-.04750	.51950	1.0960	-.06040	-.00720	-.00310	2.02910
1.996	16.436	4.27200	.54880	2.7190	-.05040	.60040	1.0610	-.05680	-.00930	-.00330	2.08750
1.996	18.540	4.27650	.61610	3.1540	-.05490	.68440	1.0310	-.05350	-.01200	-.00320	1.95350
1.996	20.559	4.28010	.68180	3.6270	-.05980	.76570	1.0020	-.04850	-.01440	-.00340	1.87970
1.996	22.636	4.28400	.74790	4.1620	-.06100	.85050	.9638	-.04710	-.01570	-.00380	1.79690
1.996	24.688	4.28970	.81408	4.7700	-.06490	.93890	.9321	-.04730	-.01680	-.00430	1.70560
1.996	25.724	4.29230	.84490	5.0900	-.06800	.98210	.9181	-.04720	-.01740	-.00460	1.65000
1.996	GRADIENT	-.00467	.03506	.00101	-.00431	.03730	-.0012	.00281	-.00069	.00010	-.26746

RUN NO. 336/ 0 RV/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CL	CD	CLM	CN	CA	CY	CYN	CEL	L/D
2.249	-.059	4.26120	.02390	1.1980	-.01990	.02380	1.1980	-.07880	.00260	-.00220	.19980
2.249	1.942	4.25900	.09120	1.2080	-.02550	.09538	1.1760	-.07298	.00130	-.00210	-.75340
2.249	4.008	4.25610	.15130	1.2570	-.02750	.15370	1.1480	-.06730	-.00040	-.00200	1.20370
2.249	6.059	4.25710	.21720	1.3530	-.03050	.23040	1.1260	-.06330	-.00230	-.00190	1.59430
2.249	8.118	4.25830	.28370	1.5240	-.03220	.30240	1.1080	-.06200	.00310	-.00240	1.86150
2.249	10.208	4.25970	.34770	1.9340	-.03730	.45430	1.0570	-.05570	-.00540	-.00310	2.11520
2.249	12.263	4.26200	.42170	2.3010	-.04000	.52930	1.0280	-.05220	-.00710	-.00320	2.11890
2.249	14.263	4.26480	.48760	2.6670	-.04300	.60620	.9963	-.04850	-.00890	-.00320	2.07510
2.249	16.388	4.26740	.55340	3.0830	-.04620	.68510	.9623	-.04510	-.01040	-.00350	2.00980
2.249	18.462	4.27020	.61940	3.4980	-.05260	.74940	.9303	-.04520	-.01250	-.00410	1.85370
2.249	20.553	4.27370	.68180	4.0890	-.05650	.83750	.8871	-.04480	-.01310	-.00440	1.72230
2.249	24.605	4.28330	.82680	4.8010	-.05700	.95220	.8643	-.04480	-.01310	-.00440	1.72230
2.249	GRADIENT	-.09125	.03125	.00143	-.00496	.03333	-.00123	.00285	-.00079	.00005	-.24620

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - WING + RAKES

(AE7R011 (02 AUG 76)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = 0.0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

BETA = .000 BOFLAP = -7.170

RUN NO. 27 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	.059	16200	2580.10001	2029.20000	1.04460	1.03420	.98700	.94370	.93720	.95110
.595	.059	20740	2580.10001	2030.60001	1.04890	1.03450	.98180	.94650	.93910	.95610
.595	.059	21740	2580.10001	2031.30001	1.04870	1.03440	.98340	.94698	.93770	.95780
.595	.059	20890	2580.10001	2030.60001	1.03860	1.02180	.98600	.93850	.93600	.95640
.595	.059	23170	2580.79999	2029.20000	1.02210	1.00530	.98231	.93020	.91910	.93810
.595	.059	20740	2580.79999	2030.60001	.98860	.96110	.97480	.91880	.91370	.91090
.595	.059	24450	2580.79999	2028.50000	.97170	.95680	.96810	.90860	.89730	.90810
.597	.061	00149	-.06002	.35418	.00124	.00083	.00213	.00071	.00048	.00126

RUN NO. 37 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.697	.057	16540	2334.00000	1696.70000	1.06530	1.04760	.98680	.93010	.91020	.92840
.699	.057	20470	2334.00000	1684.60001	1.07230	1.05190	.97970	.92630	.91490	.93920
.698	.073	21220	2334.70001	1696.00000	1.07840	1.04790	.98110	.92470	.91170	.94100
.698	.073	20900	2334.70001	1696.80000	1.06000	1.03900	.98720	.91500	.89570	.93890
.698	.073	23040	2334.78001	1696.00000	1.03820	1.01450	.98410	.90280	.89230	.91620
.697	.075	22320	2335.39999	1698.20000	1.00680	.98320	.97940	.88620	.88320	.88230
.697	.075	25760	2335.39999	1698.20000	.96610	.94540	.96870	.87810	.87810	.88120
.697	.075	00992	.00000	-.53810	.00177	.00109	.00321	.00162	.00119	.00273

RUN NO. 47 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.799	.041	16490	2200.29999	1444.72000	1.09860	1.07300	.97080	.89240	.88070	.90100
.799	.041	20160	2197.50000	1442.60001	1.10630	1.07980	.98390	.89980	.88070	.94440
.798	.083	21090	2198.89999	1445.39999	1.10310	1.07290	.98780	.89800	.87930	.92780
.797	.080	21090	2198.20001	1445.10001	1.08990	1.05650	.98610	.88350	.86160	.94450
.797	.084	23740	2198.89999	1445.10001	1.05980	1.02780	.98870	.86590	.85520	.89010
.795	.084	24530	2198.89999	1449.70000	1.02810	1.00930	.98760	.85170	.85370	.85130
.795	.084	25810	2198.20001	1447.60001	.97440	1.00360	.98180	.83200	.83690	.84250
.795	.084	00924	-.70491	-.52867	.00194	.00151	.00315	.00166	.00123	.00337

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 936.6800 IN. ZMRP = 376.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 BOFLAP = -7.170

RUN NO. 5/ 0 RV/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.902	.028	.15640	2108.39999	1243.89999	1.15370	1.12080	1.05600	1.01680	.84320	.82980	.85880
.903	.048	.20410	2109.39999	1243.20000	1.16280	1.12590	1.05610	1.01450	.85860	.84040	.86850
.904	.067	.25440	2109.10001	1246.00000	1.15640	1.11650	1.07590	1.02430	.86230	.82560	.88430
.905	.086	.20840	2109.10001	1246.70000	1.14040	1.09740	1.08860	1.03940	.84280	.81300	.87750
.906	.105	.23740	2109.79999	1247.39999	1.11720	1.06150	1.07680	1.04660	.81880	.79700	.83530
.907	.124	.24210	2109.79999	1250.30000	1.06370	1.01750	1.06570	1.04620	.80320	.80380	.82310
	GRADIENT	.01196	.00002	.17546	.00228	.00128	.00003	.00058	.00388	.00266	.00594

RUN NO. 6/ 0 RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.981	.031	.16850	2077.29999	1121.30000	1.26650	1.18700	1.13680	1.09880	.74250	.72720	.75780
.982	.040	.20600	2078.00000	1120.60001	1.23500	1.19090	1.13020	1.08600	.71230	.70540	.73140
.983	.049	.21850	2078.00000	1123.39999	1.22650	1.17950	1.15010	1.09220	.76210	.73800	.79980
.984	.058	.26800	2078.00000	1123.39999	1.21030	1.15510	1.16480	1.10960	.75410	.73250	.79770
.985	.067	.23920	2078.50000	1124.89999	1.17200	1.11650	1.14340	1.11210	.75320	.73440	.78440
.986	.076	.22570	2078.00000	1126.39999	1.12270	1.06430	1.13480	1.11580	.75060	.74730	.76020
.987	.085	.26000	2077.29999	1130.60001	1.05700	1.00080	1.13470	1.10920	.75390	.75370	.72940
	GRADIENT	.00937	.17497	.17497	.00212	.00097	.00140	.00320	.00745	.00705	.00840

RUN NO. 7/ 0 RV/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.104	.023	.15160	2034.80000	947.66000	1.37110	1.32090	1.29520	1.26160	.70680	.69100	.71930
1.105	.040	.19650	2030.60001	951.10000	1.37500	1.31780	1.27750	1.23370	.71800	.70180	.74920
1.106	.057	.22060	2036.20000	953.96000	1.36430	1.30200	1.30890	1.24240	.71680	.70360	.75320
1.107	.074	.21530	2032.70000	956.32000	1.33990	1.27020	1.31220	1.24940	.68690	.65600	.70420
1.108	.091	.23030	2034.80000	956.73000	1.29570	1.21950	1.27980	1.25580	.67780	.65980	.68620
1.109	.108	.23100	2035.50000	961.64000	1.23670	1.15860	1.26820	1.23440	.66170	.64770	.67720
1.110	.125	.22500	2032.00000	965.82000	1.16310	1.09060	1.26360	1.23460	.62530	.61370	.60760
	GRADIENT	.01118	-1.04553	.85634	.00097	.00077	.00441	.00695	.00275	.00269	.00762

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - WING + RAKES

(AET7R01) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 373.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .000 BDFLAP = -7.170

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.195	.009	.16020	2007.89999	832.47000	1.44220	1.37270	1.42210	1.38980	.66620	.64830	.67650
1.200	4.038	.19350	2005.50000	827.59000	1.45030	1.36690	1.41020	1.35860	.68100	.66350	.71980
1.199	8.158	.20480	2007.20000	828.29000	1.44300	1.34950	1.46710	1.36780	.67560	.65920	.71570
1.195	12.545	.20100	2008.60000	833.88000	1.41000	1.31160	1.45130	1.35440	.63610	.61280	.64050
1.195	16.783	.22220	2007.89999	833.88000	1.37580	1.27370	1.38251	1.36430	.60830	.62410	.61230
1.191	21.027	.22420	2007.89999	837.35000	1.31700	1.21198	1.37120	1.35880	.59970	.59870	.60020
1.191	25.266	.22070	2008.60000	839.44000	1.24530	1.15750	1.35250	1.32470	.56190	.54350	.56760
1.190	GRADIENT	.00829	-.34746	-1.21116	.00201	-.00144	-.00293	-.00377	.00367	.00372	.01072

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.298	-.004	.16350	2014.30000	728.75000	1.54130	1.44270	1.54390	1.52240	.62960	.61260	.63520
1.298	4.024	.20220	2014.30000	728.75000	1.54410	1.42840	1.51170	1.44328	.64380	.63320	.67710
1.297	8.151	.18520	2014.00000	730.28000	1.53330	1.40670	1.58870	1.45380	.63420	.61530	.65890
1.294	12.538	.20390	2014.38000	732.40000	1.50570	1.36770	1.57220	1.45950	.59860	.57100	.58970
1.294	16.776	.22660	2015.00000	733.10000	1.46430	1.32320	1.46960	1.45870	.56980	.56090	.56310
1.293	21.026	.21860	2015.00000	734.48000	1.40320	1.28210	1.46440	1.45410	.54630	.54890	.54720
1.290	25.269	.22700	2015.77000	737.28000	1.33640	1.23680	1.42620	1.39310	.53740	.51620	.52200
	GRADIENT	.00964	.00001	.00000	.00070	-.00355	-.00793	-.01956	.00352	.00437	.01015

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.404	-.022	.14420	2039.10000	637.65000	1.65810	1.52950	1.60660	1.57758	.60180	.58290	.59070
1.402	4.011	.20200	2039.10000	639.12000	1.65350	1.51350	1.58800	1.52570	.61650	.60690	.63960
1.400	8.144	.21430	2039.80000	639.85000	1.63470	1.48230	1.66400	1.53190	.60620	.58650	.61590
1.400	12.526	.21020	2039.80000	641.32000	1.60120	1.44490	1.65480	1.50550	.56820	.54390	.55990
1.397	16.769	.22490	2039.80000	643.53000	1.55560	1.40510	1.54898	1.54250	.52440	.51730	.50840
1.396	21.013	.23100	2039.80000	644.27000	1.50070	1.36870	1.55740	1.53130	.51560	.51150	.50520
1.394	25.266	.20460	2039.80000	646.48000	1.43430	1.31710	1.48890	1.45800	.50410	.48060	.47540
	GRADIENT	.01433	.00000	.39448	-.00114	-.00398	-.00213	-.01284	.00367	.00595	.01212

(AETRO2) (02 AUG 78)

PARAMETRIC DATA

BETA = .000

BOFLAP = -7.170

TABULATED DATA - OAKH1 (ARC 11-57-87-094)

ARC 11-57-87-094 OAKH1 ORBITER - WING

REFERENCE DATA

SREF = 2690.0008 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 956.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 282# 0 RVAL = 4.21 GRADIENT INTERVAL = -3.00/ 5.00

BETA	ALPHA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.18320	.066	2520.00000	1.04680	1.03560	.97860	.97170	.94500	.93600	.94980
.23520	.082	2519.29999	1.05130	1.04040	.98560	.97910	.95030	.94000	.95730
.28320	.126	2520.70001	1.05000	1.03580	.98770	.98170	.94980	.93670	.95670
.23950	.126	2520.00000	1.04210	1.02780	.98660	.98100	.94120	.92470	.96020
.26050	.16.337	2520.00000	1.02600	1.01220	.97920	.97500	.93270	.91910	.94920
.26880	.20.495	2520.00000	1.00470	.99210	.96880	.96480	.92150	.91410	.91450
.28460	.24.613	2520.08000	.97670	.96340	.95030	.94920	.91190	.89660	.91080
.01295		-.17429	.08112	.00120	.00169	.00184	.00132	.00100	.00187

RUN NO. 283# 0 RVAL = 4.31 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.18540	.028	2065.89999	1.23220	1.19880	1.01990	.98060	.75670	.73120	.76110
.23090	.086	2065.20001	1.24020	1.20580	1.05070	1.01530	.77840	.75630	.80130
.24750	.196	2068.50000	1.23460	1.19460	1.06560	1.03430	.74490	.74490	.80650
.24380	.12.370	2066.20001	1.21600	1.17250	1.07070	1.04110	.76800	.73690	.79710
.26400	.16.602	2065.89999	1.18420	1.13760	1.05630	1.03340	.76560	.73930	.80080
.26800	.20.864	2065.89999	1.14080	1.09310	1.03170	1.01470	.76110	.74160	.77210
.27276	.25.082	2063.79999	1.07150	1.02420	.98370	.97300	.76110	.74460	.74260
.01121		-.17247	.00497	.00192	.00759	.00855	.00535	.00618	.00991

RUN NO. 284# 0 RVAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.18900	.023	2012.89999	1.37160	1.32850	1.12980	1.07290	.70540	.68210	.71220
.24050	.094	2012.89999	1.37980	1.33310	1.16100	1.10740	.72300	.70010	.74300
.24700	.18.220	2015.00000	1.37540	1.32150	1.17960	1.13750	.72226	.69710	.74520
.24530	.12.398	2012.89999	1.34760	1.28980	1.18280	1.14220	.69480	.66480	.69820
.25670	.16.630	2012.89999	1.30940	1.24380	1.15490	1.12150	.68890	.65960	.69980
.27180	.20.876	2013.88001	1.25460	1.19100	1.11340	1.05180	.67140	.64520	.67120
.27360	.25.092	2012.89999	1.19400	1.12590	1.02550	.99690	.64820	.62180	.62690
.01265		.00080	.00487	.00113	.00766	.00848	.00432	.00442	.00757

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OF POOR QUALITY

(AETRO2) 1 02 AUG 78

PARAMETRIC DATA

BETA = .000 BOFLAP = -7.170

TABULATED DATA - OASIS (ARC 11-97-87-094)

ARC 11-97-87-094 OASIS ORBITER - WING

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
EREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 2857 0 RNAL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.198	.010	.19810	2017.10001	833.92000	1.45790	1.39740	1.19830	1.11330	.67130	.64580	.67110
1.197	2.054	.22700	2017.10001	834.64000	1.46030	1.39430	1.21080	1.12670	.68240	.66020	.70810
1.198	4.089	.25410	2017.10001	833.92000	1.46380	1.39400	.22410	1.14670	.68920	.66760	.71670
1.198	6.143	.24460	2016.39999	833.22000	1.46870	1.38420	1.23100	1.14180	.68460	.66640	.71610
1.198	8.223	.24040	2017.10001	833.92000	1.45250	1.37420	1.22780	1.14040	.68210	.66520	.70340
1.196	10.311	.24630	2016.50000	835.71000	1.44130	1.36040	1.20580	1.10790	.66310	.63090	.67680
1.196	12.401	.25060	2017.80000	835.02000	1.42890	1.34330	1.18140	1.09770	.64870	.61480	.63420
1.195	14.545	.26230	2017.10001	836.01000	1.41300	1.32770	1.15600	1.08320	.64010	.60940	.64240
1.197	16.638	.26720	2017.80000	835.31000	1.39870	1.29980	1.13350	1.06780	.64090	.61210	.62130
1.196	18.751	.27130	2017.10001	835.71000	1.38250	1.27360	1.11020	1.05980	.62360	.60930	.60120
1.196	20.887	.26840	2017.80000	836.02000	1.37000	1.25090	1.09760	1.05660	.61650	.62110	.61070
1.196	22.999	.26430	2017.80000	836.71000	1.30740	1.22170	1.06600	1.04500	.60000	.57720	.60680
1.195	25.116	.26270	2017.10001	835.01000	1.27430	1.19580	1.03750	1.03750	.58680	.55340	.59240
1.195	26.169	.25880	2017.10001	835.61000	1.25980	1.18560	1.03460	1.03230	.58030	.54210	.56470
1.197	GRADIENT	.00883	.00000	.00027	.00145	-.00083	.00661	.00672	.00439	.00635	.01020

(AETRO3) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-394 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
ALFON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 174 0 RV/L = 4.28 GRADIENT INTERVAL = -3.08/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.099	-4.97040	2010.80000	830.40000	1.59290	1.23200	1.44590	1.33470	.68420	.64930	.64638
1.201	2.180	-4.97620	2009.60001	827.60000	1.58468	1.22720	1.43480	1.32140	.68220	.65570	.65310
1.201	4.275	-4.96620	2010.10001	827.61000	1.59590	1.21030	1.44530	1.31390	.68210	.65240	.65070
1.199	6.406	-4.94670	2008.60001	829.69000	1.58760	1.20330	1.46620	1.32190	.67670	.65740	.65140
1.197	8.546	-4.94490	2010.10001	832.48000	1.57820	1.19340	1.49790	1.31040	.66620	.63950	.62620
1.194	10.701	-4.94170	2008.60001	834.56000	1.56380	1.17670	1.48790	1.27800	.65690	.62690	.60920
1.194	12.857	-4.94230	2009.39999	832.47000	1.56288	1.16220	1.45410	1.26520	.64860	.61650	.58800
1.194	15.033	-4.95320	2008.60001	834.56000	1.53710	1.13670	1.43400	1.25330	.64230	.60950	.57170
1.194	17.194	-4.96350	2009.39999	833.17000	1.51598	1.11900	1.43469	1.26700	.63630	.60840	.56510
1.196	19.354	-4.98870	2008.60001	832.47000	1.49440	1.09680	1.44160	1.23630	.63080	.59660	.56830
1.196	21.517	-4.92890	2009.39999	836.66000	1.45820	1.06200	1.45630	1.22230	.61730	.58510	.55800
1.193	23.659	-4.97210	2008.60001	836.66000	1.42800	1.04430	1.46750	1.24500	.62180	.58770	.56670
1.192	25.774	-4.94480	2010.10001	838.86000	1.39490	1.02130	1.47150	1.22150	.61100	.53920	.50800
GRADIENT		.00101	-.16557	-.66725	.00072	-.00520	-.00004	-.00498	-.00050	.00314	.00297

RUN NO. 3054 0 RV/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.025	-5.61920	1581.50000	397.04000	2.05600	1.50310	1.76540	1.14490	.58860	.57340	.54730
1.556	2.023	-5.61890	1582.89999	397.39000	2.05920	1.49050	1.90250	1.15080	.58040	.57340	.55420
1.556	4.109	-5.61630	1580.70000	396.86000	2.05820	1.48040	1.90660	1.15020	.58940	.57160	.55820
1.556	6.184	-5.61670	1580.70000	396.86000	2.04870	1.47160	1.89930	1.17420	.58980	.58850	.55630
1.556	8.265	-5.61770	1581.50000	397.04000	2.03490	1.44920	1.53100	1.42210	.58460	.58640	.53870
1.556	10.334	-5.61790	1578.60001	396.33000	2.02440	1.43430	1.63950	1.42760	.58260	.54870	.52360
1.556	12.388	-5.61930	1579.30000	396.51000	2.00450	1.41300	1.63420	1.16070	.56660	.49780	.51560
1.556	14.485	-5.61980	1579.30000	396.51000	1.98510	1.38710	1.61890	1.38310	.55330	.51530	.48800
1.556	16.634	-5.61910	1579.30000	396.51000	1.95660	1.37150	1.59490	1.36260	.55550	.49700	.47820
1.556	18.773	-5.62190	1580.00000	396.68000	1.93530	1.34700	1.58570	1.32700	.54900	.49850	.48110
1.556	20.773	-5.62420	1579.30000	396.51000	1.90870	1.31420	1.63100	1.25210	.54700	.49470	.49510
1.556	24.930	-5.61490	1579.30000	396.51000	1.84900	1.27270	1.61400	1.14400	.49560	.49560	.47060
1.556	29.961	-5.61420	1579.30000	396.51000	1.82960	1.26390	1.87860	1.14270	.48340	.43250	.45530
GRADIENT		.00071	-.20226	-.04563	.00053	-.00555	.03435	.00128	.00619	-.00844	.00262

ARC 11-97-87-094 04161 ORBITER + RAKES

(AETRO3) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA =
 AILERON =
 -5.000 ELEVON = .000
 .000 BOFLAP = -7.170

RUN NO. 305/ 0 RNAL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-0.099	-5.44620	1650.10001	309.92000	2.34030	1.63980	1.78390	1.15930	.53070	.46890	.47110
1.750	1.902	-5.44650	1651.50000	310.19000	2.33510	1.62598	2.04840	1.15910	.53440	.48150	.47320
1.750	3.975	-5.44940	1650.10001	309.92000	2.33340	1.62330	2.05070	1.17840	.53260	.49420	.47530
1.750	6.044	-5.44930	1649.39999	309.79000	2.33290	1.61330	2.03720	1.18610	.53250	.48320	.47320
1.750	8.116	-5.44750	1658.80000	310.06000	2.31280	1.60320	1.84650	1.38180	.53180	.54100	.48140
1.750	10.183	-5.44560	1650.10001	309.92000	2.29750	1.58680	1.68420	1.39330	.52610	.59120	.46600
1.750	12.228	-5.44500	1650.80000	310.06000	2.27690	1.57180	1.65250	1.18790	.51800	.53980	.46890
1.750	14.316	-5.44490	1650.10001	309.92000	2.25790	1.54800	1.65220	1.21070	.51180	.46710	.44300
1.750	16.464	-5.44430	1649.39999	309.79000	2.23940	1.52690	1.65410	1.27800	.50130	.42910	.44450
1.750	18.553	-5.44380	1658.10001	309.92000	2.21090	1.50280	1.65740	1.22380	.50700	.47430	.45200
1.750	20.586	-5.44340	1650.10001	309.92000	2.17480	1.48280	1.66890	1.16790	.46690	.42960	.46510
1.750	24.735	-5.43580	1656.10001	309.92000	2.11430	1.40850	2.03550	1.07920	.49450	.39780	.40580
1.750	25.784	-5.43320	1649.39999	309.79000	2.09220	1.38520	2.02260	1.06820	.43970	.37840	.38700
	GRADIENT	-0.0076	-0.00408	-0.0078	-0.0115	-0.0379	.06512	.00418	.00046	.00130	.00103

RUN NO. 315/ 0 RNAL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.996	-0.26	-5.97310	1841.70000	236.75000	2.81510	1.82630	1.94110	1.22270	.51060	.45820	.44170
1.996	1.964	-5.96960	1843.10001	236.94000	2.79940	1.82060	2.28500	1.23280	.50380	.44690	.42970
1.996	4.034	-5.97000	1843.10001	236.94000	2.77530	1.81930	2.28860	1.24190	.50100	.47560	.41870
1.996	6.098	-5.97220	1841.70000	236.75000	2.77770	1.81110	1.83610	1.24050	.50270	.47570	.42620
1.996	8.161	-5.97120	1841.70000	236.75000	2.75950	1.78460	1.84670	1.31920	.49090	.46240	.43320
1.996	10.222	-5.96910	1841.70000	236.75000	2.73250	1.76310	1.85190	1.35140	.47990	.46120	.42150
1.996	12.262	-5.96950	1841.70000	236.75000	2.72090	1.74080	1.86090	1.24420	.46700	.39960	.41600
1.996	14.346	-5.96630	1841.70000	236.75000	2.72160	1.71690	1.86770	1.26990	.45950	.37700	.40770
1.996	16.483	-5.96600	1841.00000	236.66000	2.68610	1.69440	1.86090	1.23040	.46110	.38620	.40420
1.996	18.572	-5.96580	1841.70000	236.75000	2.65580	1.67270	1.85990	1.19790	.46550	.40700	.41900
1.996	20.594	-5.96190	1841.70000	236.75000	2.60490	1.64960	1.86760	1.16930	.44020	.38100	.41700
1.996	22.673	-5.96030	1841.70000	236.75000	2.54100	1.60710	1.96620	1.14450	.42500	.38600	.39350
1.996	24.737	-5.95610	1841.00000	236.66000	2.47870	1.54720	2.15180	1.12410	.40920	.36200	.36200
1.996	25.762	-5.95210	1841.70000	236.75000	2.49660	1.52130	2.20790	1.10340	.39980	.34430	.34660
	GRADIENT	-0.0076	-0.00408	-0.0078	-0.00982	-0.0379	.06512	.00418	.00046	.00130	.00103

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

(AETRO3) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 316 0 RNT = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.250	-1.000	-6.11270	2045.39988	176.98000	3.28840	2.01120	.00000	1.25880	.47720	.39798	.38750
2.250	1.881	-6.11300	2044.70000	176.92000	3.28580	2.00390	2.39190	1.26010	.46590	.38660	.37360
2.250	3.941	-6.11290	2044.70000	176.92000	3.28310	1.99290	2.31200	1.26370	.45950	.37920	.35910
2.250	5.956	-6.10980	2044.70000	176.92000	3.26280	1.97890	2.27310	1.27310	.46090	.41370	.36650
2.250	8.052	-6.11170	2044.70000	176.92000	3.23750	1.96290	2.02490	1.27630	.44420	.41810	.36490
2.250	10.105	-6.11200	2044.70000	176.92000	3.19510	1.94780	2.03490	1.27400	.42140	.38420	.34610
2.250	12.133	-6.10950	2046.10001	177.04000	3.15220	1.92540	2.04750	1.25680	.40550	.31230	.31330
2.250	14.213	-6.10270	2051.79999	177.34000	3.16120	1.89700	2.06990	1.23800	.40470	.30950	.32260
2.250	16.343	-6.10090	2051.79999	177.53000	3.13440	1.87810	2.08470	1.21710	.40310	.31910	.33210
2.250	18.425	-6.09860	2051.79999	177.59000	3.09080	1.85340	2.09660	1.18650	.40150	.32050	.33750
2.250	20.440	-6.09470	2051.79999	177.53000	3.04580	1.81710	2.03270	1.19110	.39010	.30210	.35110
2.250	22.509	-6.09480	2051.79999	177.83000	2.98000	1.77310	2.07670	1.15210	.37510	.29110	.33910
2.250	24.566	-6.08900	2058.99999	178.14900	2.92370	1.72100	2.09410	1.14970	.36260	.28970	.31770
2.250	25.588	-6.08000	2058.99999	178.14900	2.88840	1.70220	2.14350	1.12820	.35080	.28610	.30400
GRADIENT		-0.00005	-1.7208	-0.01475	-0.00137	-0.00453	.56311	.00323	-.00437	-.03462	-.00713

RUN NO. 441 0 RNT = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	.094	-4.91730	1500.80000	98.02200	3.82790	2.24680	2.17350	1.29660	.38190	.35170	.34970
2.499	2.131	-4.94050	1500.10001	87.98000	3.82600	2.24710	2.20080	1.29660	.39030	.35200	.34390
2.499	4.183	-4.95100	1499.39999	87.93900	3.80730	2.21590	2.19570	1.32670	.39610	.35990	.31980
2.499	6.219	-4.97910	1500.10001	87.99000	3.81000	2.22400	2.23810	1.34640	.39830	.36300	.35600
2.499	8.250	-4.99180	1500.10001	87.98000	3.79000	2.20940	2.24960	1.34920	.39830	.36300	.33300
2.499	10.297	-5.00220	1500.10001	87.98000	3.75381	2.18220	2.27080	1.34920	.39480	.36200	.30880
2.499	12.331	-5.00860	1500.10001	87.98000	3.72490	2.14630	2.27330	1.32370	.39310	.36200	.27120
2.499	14.382	-5.00990	1500.10004	87.98000	3.70360	2.10870	2.29940	1.33390	.38950	.36000	.29680
2.499	16.413	-5.01790	1500.10001	87.98000	3.65080	2.10870	2.30000	1.31740	.38650	.35800	.28850
2.499	18.461	-5.02240	1500.10001	87.98000	3.59860	2.08250	2.30600	1.29930	.38670	.35840	.28130
2.499	20.507	-4.99270	1500.10001	87.98000	3.51721	2.02930	2.29340	1.26720	.38530	.35290	.27750
2.499	22.541	-4.97780	1500.10001	87.98000	3.45380	1.99050	2.28230	1.26720	.38560	.35290	.27750
2.499	24.592	-4.99950	1500.10001	87.98000	3.36820	1.94930	2.27180	1.20750	.38070	.34400	.26620
2.499	25.614	-4.94950	1500.10001	87.98000	3.33700	1.93610	2.26620	1.20550	.38970	.34340	.28160
GRADIENT		-0.01069	-3.4235	-.02060	-.00504	-.00739	.00542	.00522	-.00583	-.00534	-.00732

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XC
LREF = 474.8000 IN. YMRP = 0.0000 IN. YC
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZC
SCALE = 0.300

PARAMETRIC DATA

BETA = -5.000 ELEVON = 0.000
AILRON = 0.000 BDFLAP = -7.170

RUN NO. 440/ 0 RV/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	-0.005	-4.88390	2008.60001	51.53600	5.00400	2.72670	2.63040	1.38610	32910	28780	29470
3.040	2.030	-4.90640	2007.89999	51.51800	5.00510	2.72670	2.64080	1.41060	32810	28340	28690
3.040	4.060	-4.92740	2008.60001	51.13600	5.00220	2.71310	2.65120	1.41040	30710	26590	26240
3.040	6.109	-4.94570	2008.60001	51.53600	4.98920	2.69340	2.66930	1.40960	28860	27030	23930
3.040	8.183	-4.94860	2008.60001	51.53600	4.96850	2.67620	2.70370	1.41300	27720	22550	22900
3.040	10.160	-4.96750	2008.60001	51.53600	4.95240	2.67550	2.75440	1.44250	25550	24740	24400
3.040	12.192	-4.97410	2008.60001	51.53600	4.88880	2.61340	2.75090	1.40360	26240	21090	21430
3.040	14.217	-4.97410	2008.60001	51.53600	4.86790	2.59280	2.77150	1.40360	26240	21090	22460
3.040	16.249	-4.97350	2008.60001	51.53600	4.79780	2.56560	2.78530	1.41510	27830	23030	24400
3.040	18.282	-4.96550	2008.60001	51.51800	4.71540	2.52090	2.79220	1.41160	26460	21310	22340
3.040	20.327	-4.95740	2007.89999	51.51800	4.63270	2.48030	2.80320	1.39720	25560	20060	20750
3.040	22.366	-4.94280	2008.60001	51.53600	4.53000	2.43560	2.87020	1.36950	24490	18650	20370
3.040	24.402	-4.92490	2007.89999	51.51800	4.43870	2.39520	2.79860	1.34930	24500	18650	19340
3.040	25.441	-4.91470	2008.60001	51.53600	4.39590	2.38400	2.78300	1.33860	25530	19330	20020
GRADIENT		-0.0070	-80018	-0.0000	-0.0044	-0.0034	0.0512	0.0623	-0.0541	-0.0539	-0.0794

RUN NO. 431/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	-1.189	-5.09780	2544.10001	33.41400	6.31010	3.30760	3.19400	1.59190	38990	33690	34220
3.499	1.829	-5.12230	2544.10001	33.41400	6.28080	3.28000	3.14240	1.57580	35330	30030	30550
3.499	3.694	-5.14290	2542.60001	33.39600	6.28960	3.26180	3.18850	1.59790	35880	30050	30050
3.499	5.681	-5.15910	2542.60001	33.39600	6.24810	3.23010	3.17710	1.59390	30140	25360	25370
3.499	7.907	-5.17240	2541.89999	33.38600	6.24550	3.22040	3.23100	1.58050	31740	26430	22450
3.499	9.935	-5.18230	2545.50000	33.43200	6.19040	3.17030	3.23920	1.54910	27750	22450	17770
3.499	11.964	-5.18900	2550.39999	33.46700	6.15620	3.12720	3.25430	1.52270	23590	17770	17690
3.499	14.007	-5.19030	2550.00000	33.54400	6.08170	3.07110	3.28270	1.53140	24040	17690	17690
3.499	16.021	-5.18830	2559.60001	33.61800	6.00340	3.06330	3.31090	1.57740	23980	19890	23380
3.499	18.075	-5.18060	2563.89999	33.67400	5.88690	2.99290	3.28760	1.54590	25150	18400	20420
3.499	20.120	-5.17210	2565.50000	33.74800	5.77800	2.97090	3.29640	1.54570	28230	18400	18400
3.499	22.140	-5.15660	2575.20001	33.82200	5.67080	2.93690	3.32430	1.55460	28760	22480	21950
3.499	24.139	-5.13750	2575.89999	33.83200	5.51520	2.87110	3.27850	1.49840	28320	19040	19040
3.499	25.159	-5.12780	2578.70001	33.86900	5.44450	2.85720	3.28150	1.50600	25990	19140	18620
GRADIENT		-0.0116	-37122	-0.00470	-0.00507	-0.00638	0.00885	0.0149	-0.0769	-0.0900	-0.1031

(AE7R04) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER * RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

PARAMETRIC DATA

BETA =
A/LR0N =
-2.000 ELEVON = .000
.000 BDCLAP = -7.170

RUN NO. 304/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PSR/P	PS5/P	PS6/P	PS7/P
1.556	.029	-2.58140	1573.70000	395.09000	1.92380	1.62970	1.59940	1.21550	.80520	.58910	.56440
1.556	2.025	-2.57970	1573.00000	394.91000	1.93040	1.62250	1.77980	1.22170	.60210	.58010	.56300
1.556	4.108	-2.58050	1572.30000	394.73000	1.92550	1.61300	1.79630	1.23340	.59890	.56870	.55590
1.556	6.182	-2.58110	1573.00000	394.91000	1.91390	1.60020	1.75750	1.23460	.59800	.58220	.55940
1.556	8.258	-2.57990	1573.70000	395.09000	1.90430	1.58770	1.46750	1.24520	.58890	.56170	.55210
1.556	10.330	-2.58000	1573.00000	394.91000	1.89320	1.57290	1.46830	1.53140	.57610	.53030	.54150
1.556	12.378	-2.58140	1573.00000	394.91000	1.86830	1.55140	1.45050	1.43330	.56330	.51440	.51080
1.556	14.469	-2.58290	1573.70000	395.09000	1.84730	1.53140	1.45050	1.23550	.55410	.48480	.50340
1.556	16.617	-2.59060	1573.00000	394.91000	1.82140	1.50570	1.42350	1.36990	.54710	.49330	.49910
1.556	18.716	-2.57820	1573.00000	394.91000	1.79230	1.47390	1.56230	1.47740	.54840	.4840	.47840
1.556	20.753	-2.57680	1573.70000	394.73000	1.77100	1.44388	1.77990	1.40940	.54090	.47090	.47090
1.556	22.915	-2.57020	1573.00000	395.09000	1.71980	1.39300	1.70470	1.22198	.49740	.44320	.44410
1.556	25.943	-2.56800	1572.30000	394.73000	1.70800	1.38440	1.75940	1.22930	.48480	.42560	.43590
GRADIENT		.00022	-.34319	-.08823	.00040	-.00410	.04738	.00440	-.00157	-.00501	.00062

RUN NO. 307/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-.093	-2.41170	1649.39999	309.79000	2.18860	1.81600	1.62880	1.28190	.56180	.51710	.50680
1.750	1.904	-2.41270	1651.50000	310.19000	2.18890	1.80640	1.89710	1.28660	.56030	.53110	.50650
1.750	3.979	-2.41220	1652.89999	310.45000	2.18940	1.80630	1.90820	1.29160	.56010	.52760	.50750
1.750	6.047	-2.41220	1653.60001	310.59000	2.18080	1.80130	1.95270	1.29960	.55770	.52860	.50410
1.750	8.117	-2.41280	1652.89999	310.45000	2.16740	1.79110	1.51496	1.30650	.54910	.51080	.51310
1.750	10.181	-2.41100	1652.60001	310.59000	2.14660	1.77630	1.51920	1.55100	.53890	.48580	.50290
1.750	12.226	-2.41040	1655.00000	310.85000	2.12770	1.75630	1.51750	1.54140	.52560	.47990	.49100
1.750	14.311	-2.40890	1655.00000	310.85000	2.10100	1.73270	1.52010	1.30300	.52020	.47260	.47340
1.750	16.455	-2.40420	1654.30000	310.72000	2.08060	1.70230	1.51450	1.32580	.51340	.46260	.44830
1.750	18.560	-2.40090	1655.70000	310.99000	2.05640	1.68880	1.51440	1.42060	.51030	.47490	.43550
1.750	20.579	-2.39820	1657.10001	311.25000	2.02420	1.65060	1.51440	1.38940	.49880	.46920	.42810
1.750	22.732	-2.39280	1657.10001	311.25000	1.96720	1.58640	1.80150	1.31620	.45380	.39740	.40530
1.750	25.750	-2.38930	1657.10001	311.25000	1.93450	1.56030	1.79030	1.25480	.44350	.38310	.39740
GRADIENT		-.00012	.85826	.16183	-.00079	-.60237	.06820	.00238	-.00042	.00255	.00017

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TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER → RAKES

PARAMETRIC DATA
BETA = -2.000° ELEVON = .000
AILRON = .000 BEELAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 938.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.996	-0.019	-2.92380	1842.39999	236.84000	2.63370	2.04670	1.71840	1.33810	.51870	.46180	.49430
1.996	1.965	-2.92510	1842.39999	236.84000	2.63198	2.02630	2.03920	1.34620	.51030	.45590	.44580
1.996	4.034	-2.92340	1841.70000	236.75000	2.62198	2.01710	2.04926	1.36480	.51548	.46600	.43520
1.996	6.092	-2.92210	1842.39999	236.84000	2.60550	1.99850	1.63140	1.37700	.51500	.46350	.44680
1.996	8.158	-2.92570	1842.39999	236.84000	2.58130	1.98270	1.65050	1.37930	.50700	.47700	.45230
1.996	10.215	-2.92440	1841.70000	236.75000	2.57310	1.95580	1.65230	1.47500	.49320	.47520	.44300
1.996	12.257	-2.92230	1841.70000	236.75000	2.54720	1.94540	1.68110	1.48080	.48470	.47200	.42700
1.996	14.335	-2.92300	1841.70000	236.75000	2.49450	1.92970	1.69830	1.35130	.46900	.46970	.42100
1.996	16.478	-2.92110	1841.70000	236.75000	2.45040	1.88430	1.63150	1.32500	.46350	.46370	.42300
1.996	18.564	-2.91870	1841.70000	236.75000	2.40570	1.85780	1.63230	1.31500	.45940	.41490	.41180
1.996	20.586	-2.91960	1842.39999	236.84000	2.40750	1.82650	1.72350	1.34410	.44480	.37290	.40210
1.996	22.663	-2.91630	1842.39999	236.84000	2.37470	1.80780	1.88910	1.32390	.43560	.37370	.37140
1.996	24.727	-2.91300	1842.39999	236.84000	2.30080	1.74370	1.91370	1.30670	.42380	.36020	.35260
1.996	25.753	-2.90950	1848.10001	237.57000	2.26680	1.71520	1.88470	1.30270	.41610	.35410	.35260
1.996	GRADIENT	.00010	-1.17385	-.02235	-.00292	-.00581	.08136	-.00734	-.00079	.00105	-.00471

RUN NO. 317/ 0 RN/L = 3.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/2	PS4/P	PS5/P	PS6/P	PS7/P
2.250	-.093	-3.07790	2059.60001	178.28000	2.95980	2.23650	1.73130	1.38980	.48320	.48990	.39260
2.250	1.887	-3.07710	2058.89999	178.14000	2.97950	2.22630	1.73220	1.40148	.47380	.48990	.38110
2.250	3.943	-3.07600	2058.89999	178.14000	2.97080	2.21840	1.74210	1.41120	.46750	.48370	.36980
2.250	5.995	-3.07470	2058.89999	178.14000	2.96788	2.20350	1.75900	1.42120	.46350	.41360	.37180
2.250	8.053	-3.07480	2059.60001	178.20000	2.95598	2.19880	1.77930	1.42370	.45530	.40750	.36910
2.250	10.105	-3.07160	2060.29999	178.26000	2.92430	2.18520	1.78470	1.42210	.43290	.38110	.34220
2.250	12.137	-3.07140	2060.29999	178.26000	2.89460	2.16340	1.78660	1.41810	.41700	.32530	.33770
2.250	14.203	-3.07090	2060.29999	178.26000	2.85860	2.13850	1.80860	1.42020	.41340	.32070	.33730
2.250	16.340	-3.06930	2060.29999	178.26000	2.83010	2.10780	1.81958	1.40210	.40480	.31730	.34480
2.250	18.420	-3.06650	2060.29999	178.26000	2.79710	2.07500	1.80760	1.39930	.39840	.31180	.34460
2.250	20.435	-3.06440	2060.29999	178.26000	2.73980	2.03640	1.80950	1.34548	.38410	.29940	.35720
2.250	22.505	-3.05750	2060.29999	178.26000	2.68410	1.98870	1.89950	1.34450	.37350	.28890	.34070
2.250	24.563	-3.05420	2060.29999	178.26000	2.60870	1.95000	2.00260	1.32060	.37250	.28790	.30180
2.250	25.583	-3.05240	2060.29999	178.26000	2.57110	1.92410	1.97580	1.31550	.36920	.27750	.28750
2.250	GRADIENT	.00047	-1.17234	-.01477	.00268	-.00449	-.00264	.00530	-.00388	-.00388	-.00565

RUN NO. 317/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

(AE7R04) (02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BRFLAP = -7.170

TABULATED DATA - QAL61 (ARC 11-97-87-89)

ARC 11-97-87-89 QAL61 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1078.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN. NO. 442/ Q RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	1.10	-1.94200	1500.10001	87.98800	3.41240	2.58380	1.88620	1.48500	3.9620	36400	34580
2.499	2.147	-1.95050	1500.10001	87.98000	3.40820	2.58130	1.88560	1.50240	38310	35080	33470
2.499	4.174	-1.96070	1500.10001	87.98000	3.40730	2.55970	1.88400	1.52480	38700	35300	34700
2.499	6.223	-1.96890	1500.10001	87.98000	3.39810	2.54700	1.88400	1.53460	38510	37300	34280
2.499	8.251	-1.97540	1500.10001	87.98000	3.38620	2.52530	1.88270	1.53540	38610	35990	34580
2.499	10.293	-1.97980	1500.10001	87.98000	3.35420	2.49640	1.88650	1.52940	35300	30870	32480
2.499	12.338	-1.98220	1500.10001	87.98000	3.33260	2.46660	1.87520	1.52810	33380	28960	30170
2.499	14.382	-1.98470	1498.60001	87.77300	3.29920	2.43450	1.87350	1.52690	32440	27190	29810
2.499	16.419	-1.98380	1497.30000	87.81500	3.24830	2.43340	1.87750	1.52720	32950	26310	30930
2.499	18.492	-1.98320	1497.30000	87.81500	3.18020	2.39630	1.85980	1.50520	30910	26060	30500
2.499	20.523	-1.98100	1496.60001	87.77300	3.11640	2.34730	1.85770	1.50150	30840	26200	30640
2.499	22.559	-1.97580	1497.30000	87.81500	3.06590	2.29670	1.84750	1.48110	29610	24960	27790
2.499	24.593	-1.97050	1497.30000	87.81500	3.01870	2.26450	1.83950	1.47390	29610	24960	27610
2.499	25.629	-1.96540	1497.30000	87.81500	2.96230	2.23510	1.81190	1.45140	28390	24340	25350
2.499	GRADIENT	-.00460	.00001	-.00000	-.00126	-.00593	-.00757	.00375	-.00279	-.00271	.00029

RUN. NO. 439/ Q RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	.039	-1.86350	2018.50000	51.79000	4.41894	3.22620	2.23510	1.67470	34870	31460	30090
3.040	2.071	-1.87300	2015.70000	51.71700	4.41540	3.22660	2.25700	1.68830	33500	28360	27685
3.040	4.096	-1.88260	2012.89999	51.64500	4.41780	3.22160	2.27230	1.70680	32600	28360	29150
3.040	6.126	-1.89100	2007.89999	51.51800	4.39410	3.19520	2.28470	1.70760	33680	29560	28870
3.040	8.151	-1.89630	2007.89999	51.51800	4.39140	3.18930	2.32380	1.72620	33870	28370	28870
3.040	10.189	-1.89940	2008.60001	51.53600	4.37000	3.14460	2.34830	1.72710	31980	27180	26830
3.040	12.215	-1.89940	2008.60001	51.53600	4.33050	3.09250	2.34620	1.70650	27590	21740	21740
3.040	14.261	-1.90430	2007.89999	51.51800	4.27580	3.05560	2.34740	1.70120	26100	20600	21630
3.040	16.290	-1.90530	2007.89999	51.51800	4.22160	3.04080	2.36080	1.73940	28920	22530	22870
3.040	18.331	-1.90580	2007.89999	51.51800	4.14330	2.98900	2.36970	1.72820	28380	23380	23720
3.040	20.382	-1.89960	2008.60001	51.53600	4.06730	2.93650	2.34530	1.73010	29340	23840	24870
3.040	22.429	-1.89560	2008.60001	51.53600	3.96420	2.86430	2.31100	1.69230	26240	21430	22810
3.040	24.449	-1.89970	2008.60001	51.53600	3.90060	2.82200	2.29980	1.68490	26960	21810	22150
3.040	25.468	-1.88640	2008.60001	51.53600	3.84910	2.79870	2.29800	1.67900	26560	20370	20710
3.040	GRADIENT	-.00471	-1.38250	-.00354	-.00032	-.00113	.00317	.00791	-.00860	.00442	.00232

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - RAKES

(AE7RQ4) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RUN. NO. 432/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	-1.180	-1.98260	2607.00000	34.24000	5.41180	3.83660	2.58120	1.86710	34.570	29390	26360
3.499	1.873	-1.99070	2603.39999	34.29900	5.42200	3.86090	2.58450	1.86530	35.110	29940	26940
3.499	3.873	-2.00030	2609.10001	34.26800	5.41490	3.82670	2.59020	1.86590	31.910	29320	25700
3.499	5.897	-2.00980	2612.70001	34.31500	5.39820	3.88560	2.62150	1.87180	29998	24300	22750
3.499	7.941	-2.01130	2612.70001	34.31500	5.39820	3.78120	2.64820	1.88250	30450	23210	23210
3.499	9.942	-2.01790	2617.60001	34.38000	5.36820	3.75200	2.67850	1.89920	26380	22190	21670
3.499	11.971	-2.02110	2614.10001	34.33300	5.31030	3.68940	2.68130	1.87550	26400	19690	20200
3.499	13.998	-2.02160	2616.20001	34.36400	5.23970	3.66430	2.68440	1.85780	25530	18820	18820
3.499	15.031	-2.02120	2614.10001	34.33300	5.15310	3.61990	2.70110	1.92670	26970	21290	21290
3.499	16.083	-2.01960	2615.50000	34.35200	5.08470	3.58110	2.72750	1.96900	24140	21140	23110
3.499	20.096	-2.01940	2614.10001	34.33300	4.98660	3.50700	2.68200	1.93880	27820	23680	22660
3.499	22.126	-2.01280	2618.29999	34.39300	4.84120	3.43820	2.65930	1.98100	17820	17820	13370
3.499	24.151	-2.00740	2623.29999	34.45400	4.73740	3.36870	2.65340	1.89150	25030	19980	18360
3.499	25.182	-2.09100	2628.89999	34.52800	4.71960	3.36650	2.68920	1.93040	30500	24350	22810
3.499	GRADIENT	-0.0437	51884	0.0692	0.0078	-0.0288	0.0224	-0.0025	-0.0662	-0.0016	-0.0650

(AET785X) (02 AUG 78)

TABULATED DATA - 04161 (ARC 11-57-87-094)

ARC 11-57-87-094 04161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6880 IN. X0
LREF = 474.8080 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 21/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.596	.077	.18030	2642.39999	2077.39999	1.04550	1.03160	.98680	.97460	.95170	.94630	.93580
.596	2.128	.20500	2642.39999	2077.39999	1.04720	1.03480	.99110	.97950	.95800	.94700	.93540
.597	4.186	.20500	2642.39999	2076.00000	1.05118	1.03830	.98590	.98500	.95200	.94810	.93630
.596	6.256	.21280	2642.39999	2076.10001	1.04890	1.03390	.99720	.98490	.95050	.94760	.93560
.596	8.332	.21850	2642.39999	2077.39999	1.04760	1.03390	.99840	.98540	.95080	.94800	.93638
.596	10.447	.21890	2642.39999	2078.10001	1.04360	1.02680	.99640	.98510	.95030	.94830	.93640
.596	12.543	.21980	2642.39999	2078.10001	1.03940	1.02150	.99630	.98420	.94730	.94730	.93640
.596	14.659	.22750	2642.39999	2077.39999	1.03110	1.01530	.99530	.98378	.94560	.94500	.93260
.596	16.776	.22120	2642.39999	2077.39999	1.02160	1.00470	.99230	.98310	.94240	.94700	.93700
.597	18.880	.21960	2642.39999	2078.00000	1.01160	.99520	.98770	.97990	.93700	.94610	.93770
.594	21.008	.20640	2642.39999	2081.00000	.99560	.97980	.98070	.97400	.92970	.94390	.92570
.599	23.112	.20610	2632.50000	2068.10001	.98260	.96820	.97878	.97000	.92540	.94390	.92560
.597	25.193	.21330	2631.79999	2067.50000	.96460	.95080	.97130	.96380	.91990	.92350	.91750
GRADIENT		.00501	.03802	.34081	.00136	.00127	.00248	.00253	.00007	.00044	.00627

RUN NO. 18/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.590	.047	.19640	2114.00000	1250.20000	1.15980	1.11990	1.06370	1.01410	.87660	.87110	.86680
.592	2.145	.21110	2114.70300	1252.39999	1.15660	1.12330	1.04440	1.01140	.87630	.87210	.86680
.591	4.251	.21320	2117.60900	1250.89999	1.16250	1.12660	1.05450	1.01300	.87440	.87420	.86940
.593	6.354	.21700	2115.39999	1252.39999	1.15980	1.12180	1.06520	1.02060	.87500	.87460	.86970
.597	8.469	.21800	2114.70001	1254.80001	1.15580	1.11690	1.06530	1.02640	.87140	.87140	.86580
.598	10.597	.21480	2117.60001	1255.30000	1.14980	1.10690	1.06820	1.03390	.86660	.86610	.86130
.595	12.720	.22140	2116.20001	1252.39999	1.14260	1.09980	1.07690	1.04070	.86340	.86180	.87450
.592	14.889	.22340	2118.89999	1250.89999	1.12740	1.08460	1.07110	1.04370	.84770	.84990	.85660
.593	17.013	.21610	2116.20001	1253.10001	1.10930	1.06470	1.08250	1.04900	.83380	.83950	.84300
.597	19.197	.21760	2117.60001	1256.70000	1.08960	1.04290	1.07500	1.05310	.81890	.81780	.83080
.596	21.283	.20840	2116.20001	1251.39999	1.08010	1.01670	1.06870	1.05110	.79790	.79370	.82400
.597	23.397	.20450	2116.20001	1256.30000	1.03700	.99940	1.07270	1.04420	.75920	.75840	.78930
.597	25.439	.21610	2115.20001	1250.06000	1.00930	.98290	1.07160	1.04780	.72270	.70960	.72620
GRADIENT		.00399	.05671	.15936	.00159	.00145	.00336	.00428	-.00052	.00088	.00338

(AETRO5) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0309

BETA =
AIRLON =

.000 ELEVON = .000
.000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.004	.17490	2008.60001	829.69000	1.43360	1.37880	1.42130	1.35370	.63480	.65370	.67030
1.204	2.147	.17600	2013.10801	824.84000	1.45830	1.37920	1.40450	1.37450	.65298	.66370	.67730
1.209	4.270	.22600	2007.89999	827.60000	1.45410	1.36550	1.41190	1.35998	.69030	.67138	.66700
1.196	6.393	.21090	2009.39999	833.17000	1.44350	1.35440	1.43250	1.37140	.68870	.67020	.65880
1.198	8.561	.22430	2009.39999	831.08000	1.43960	1.34650	1.42340	1.36790	.68510	.66420	.65380
1.195	10.721	.22420	2009.60001	833.88000	1.42320	1.32870	1.39590	1.36970	.67640	.64370	.64110
1.196	12.879	.21810	2008.39999	833.17000	1.41910	1.31320	1.37100	1.34100	.65300	.63000	.62640
1.196	15.042	.21970	2009.39999	833.17000	1.39760	1.29810	1.38790	1.34010	.62050	.60050	.59050
1.198	17.205	.21220	2008.80001	831.08000	1.37160	1.26310	1.35400	1.30520	.62810	.61500	.58270
1.194	19.361	.20240	2008.39999	838.75000	1.33970	1.23410	1.41400	1.35520	.62390	.57430	.55000
1.190	21.505	.20330	2010.80000	843.15000	1.30870	1.26510	1.36760	1.36100	.62090	.54940	.56280
1.193	23.630	.20800	2010.10001	835.98000	1.28090	1.18100	1.36810	1.34560	.61900	.54400	.52670
1.189	25.739	.20510	2009.39999	840.14000	1.24020	1.15290	1.35030	1.32568	.59960	.54400	.52670
GRADIENT		.04211	-.16707	-.49165	.00311	-.00315	-.00232	-.00800	-.00107	.00180	-.90078

RUN NO. 16/ 0 RV/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.399	.023	.21940	2046.10001	644.15000	1.65298	1.52470	1.59210	1.56930	.64340	.60100	.60320
1.401	2.114	.23950	2046.80000	642.66000	1.65220	1.52110	1.58370	1.53290	.64420	.60370	.60370
1.399	4.216	.18480	2046.10001	643.41000	1.65020	1.50390	1.60580	1.52490	.64060	.59960	.59630
1.395	6.341	.20820	2046.10001	647.09000	1.63560	1.48510	1.66980	1.54750	.63430	.59980	.59560
1.395	8.493	.22180	2047.50000	647.80000	1.62230	1.47370	1.66870	1.53930	.62960	.57940	.57050
1.394	10.652	.22450	2047.50000	648.54000	1.60980	1.45940	1.66460	1.56910	.62360	.56000	.56000
1.393	12.797	.23020	2046.80000	649.29000	1.59760	1.43740	1.65460	1.52210	.61010	.58990	.54380
1.395	14.956	.22300	2047.50000	647.80000	1.56960	1.42010	1.66000	1.52010	.61010	.59480	.51310
1.396	17.119	.20330	2046.80000	647.08000	1.54920	1.40210	1.66600	1.53660	.58970	.57140	.47240
1.392	19.270	.19920	2046.80000	650.03000	1.51640	1.37860	1.66800	1.53130	.58540	.56170	.45850
1.391	21.424	.22280	2048.29999	652.22000	1.48478	1.35180	1.66360	1.51710	.58390	.58660	.47130
1.391	23.562	.20640	2048.29999	652.22000	1.46810	1.33030	1.66270	1.50510	.58010	.54660	.45480
1.389	25.695	.20960	2049.00000	651.36000	1.41630	1.30080	1.66970	1.43320	.56320	.48950	.45480
GRADIENT		-.00827	-.00031	-.17601	-.00064	-.00499	.00327	-.01058	-.00067	-.00034	-.08165

RUN NO. 12/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

(AETROES) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
AIRLON = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 3034 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	0.37	-52700	1569.39993	394.02000	1.84010	1.72940	1.50260	1.28250	6.0860	584.30	57760
1.556	2.035	-53090	1573.10001	394.20000	1.84750	1.72250	1.70080	1.28620	61340	581.00	58540
1.556	4.117	-53140	1568.39999	394.02000	1.84030	1.71700	1.71260	1.30880	60820	58570	58240
1.556	6.192	-53080	1570.10001	394.20000	1.83960	1.70010	1.65950	1.30910	60530	58730	57420
1.556	8.266	-53130	1570.80000	394.39000	1.83180	1.68770	1.57390	1.31710	59330	58510	56910
1.556	10.334	-53060	1573.00000	394.91000	1.81090	1.67010	1.57420	1.39430	57460	56700	54410
1.556	12.382	-52880	1573.70000	395.09000	1.79080	1.64830	1.57810	1.58980	57090	52370	52370
1.556	14.488	-53470	1573.00000	394.91000	1.76330	1.62830	1.55400	1.31060	56030	51500	51410
1.556	16.623	-53340	1573.70000	395.09000	1.73770	1.60050	1.42540	1.29140	55460	52050	48910
1.556	18.720	-53090	1573.00000	395.09000	1.70920	1.57170	1.69270	1.56160	54750	55530	47970
1.556	20.757	-52790	1573.70000	395.09000	1.68990	1.54530	1.64340	1.53400	54750	53040	46940
1.556	22.920	-51890	1573.00000	394.91000	1.62810	1.49530	1.65620	1.53970	49430	47280	42330
1.556	25.945	-51760	1573.70000	395.09000	1.54170	1.47100	1.69770	1.27620	48870	47610	40260
GRADIENT		-00107	-00233	-00060	.00002	-00304	.05115	.00644	-00001	.00036	.00264

RUN NO. 3084 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	0.057	-35100	1657.10001	311.25000	2.08470	1.92980	1.43390	1.37120	57650	53260	52580
1.750	1.917	-35270	1657.80000	311.38000	2.08810	1.92230	1.79460	1.36310	57610	52540	52940
1.750	3.999	-35290	1657.10001	311.25000	2.09100	1.90880	1.82590	1.39280	57420	52750	53090
1.750	6.080	-35260	1656.39999	311.25000	2.08110	1.90670	1.47630	1.39920	56310	52430	53170
1.750	8.169	-35240	1657.10001	311.25000	2.06680	1.88700	1.44490	1.40290	54760	51850	51970
1.750	10.189	-35110	1657.10001	311.25000	2.04440	1.87070	1.44510	1.40900	53380	49390	49500
1.750	12.231	-35070	1656.39999	311.25000	2.02490	1.84940	1.44580	1.66540	52770	46930	48720
1.750	14.373	-35010	1657.10001	311.25000	2.00330	1.82950	1.44490	1.66560	51780	46840	48430
1.750	16.464	-34970	1656.39999	311.25000	1.97160	1.81780	1.44770	1.60520	50310	46910	45510
1.750	18.597	-34930	1656.39999	311.25000	1.95480	1.80990	1.44770	1.48480	48310	46910	44140
1.750	20.759	-34890	1657.10001	311.25000	1.91710	1.74160	1.68770	1.59450	49750	46560	42740
1.750	22.920	-34840	1657.10001	311.25000	1.84800	1.68990	1.68770	1.68210	45080	46560	38440
1.750	25.945	-33730	1656.39999	311.25000	1.83740	1.68230	1.58280	1.43110	43770	47380	36260
GRADIENT		-00046	-00195	-00036	.00154	-00516	.09438	.08515	-00057	-00124	.00125

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - RAKES

(AETROS) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LPSF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0500

BETA =
ALPHA =

ELEVON =
BDFLAP =

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	RVAL	GRADIENT INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.995	-0.019	-87570	1842.39999	236.84000	3.05	2.44300	2.18110	1.50210	1.45120	.52520	.47050	.46150
1.995	1.966	-87670	1841.70000	236.75000		2.44820	2.18090	1.51230	1.45480	.52940	.46790	.45720
1.995	4.033	-87800	1842.39999	236.84000		2.44940	2.18170	1.52740	1.46170	.53190	.46830	.45730
1.995	6.093	-87790	1842.39999	236.84000		2.44750	2.18260	1.53860	1.47070	.52370	.46150	.45980
1.995	8.153	-87770	1842.39999	236.84000		2.41330	2.18200	1.53940	1.47820	.51050	.45200	.45080
1.995	10.211	-87720	1843.10001	236.84000		2.38930	2.18300	1.54280	1.47520	.49410	.43410	.43450
1.995	12.254	-87710	1842.39999	236.84000		2.38330	2.18300	1.55740	1.46540	.48500	.42730	.42650
1.995	14.335	-87310	1843.10001	236.84000		2.35960	2.18430	1.55740	1.46540	.48500	.42730	.42650
1.995	16.477	-87050	1843.10001	236.84000		2.31710	2.18410	1.55660	1.46340	.48410	.42650	.42570
1.995	18.565	-86550	1842.39999	236.84000		2.27490	2.18410	1.55660	1.46340	.48410	.42650	.42570
1.995	20.590	-86540	1842.39999	236.84000		2.27490	2.18410	1.55660	1.46340	.48410	.42650	.42570
1.995	22.667	-86160	1842.39999	236.84000		2.18390	1.93470	1.75120	1.46410	.48410	.42650	.42570
1.995	24.727	-85810	1841.70000	236.75000		2.14000	1.83470	1.65990	1.45950	.48390	.42650	.42570
1.995	25.753	-85530	1843.10001	236.84000		2.10480	1.84470	1.62590	1.45420	.48390	.42650	.42570
1.995	GRADIENT	-00057	00232	00069		00406	-07828	00625	00820	.00153	-00054	.00147

RUN NO. 318/ 0 RVAL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	RVAL	GRADIENT INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.250	-0.096	-1.03120	2050.29999	178.26000	3.05	2.77130	2.39340	1.58650	1.51980	.47010	.41340	.37150
2.250	1.839	-1.03020	2050.29999	178.26000		2.76140	2.38850	1.60150	1.52880	.46020	.41730	.36450
2.250	3.963	-1.03460	2050.29999	178.26000		2.75880	2.38320	1.62400	1.52540	.47070	.39400	.37920
2.250	6.065	-1.03250	2050.29999	178.26000		2.74940	2.37740	1.63750	1.52900	.47580	.39820	.38220
2.250	8.058	-1.02910	2050.29999	178.26000		2.74540	2.37760	1.64830	1.54080	.46050	.39380	.39180
2.250	10.108	-1.02810	2050.29999	178.26000		2.71920	2.34170	1.65480	1.54120	.44240	.36770	.37560
2.250	12.143	-1.02740	2050.29999	178.26000		2.69990	2.32380	1.66180	1.53030	.42840	.34260	.35270
2.250	14.213	-1.02570	2050.29999	178.26000		2.65440	2.29140	1.66810	1.53360	.41800	.32630	.34520
2.250	16.345	-1.02420	2050.29999	178.26000		2.62490	2.26050	1.66830	1.53090	.40880	.31820	.34500
2.250	18.426	-1.02220	2050.29999	178.26000		2.60270	2.22440	1.66770	1.52660	.39870	.30540	.34390
2.250	20.441	-1.01700	2050.29999	178.26000		2.53810	2.18310	1.74690	1.52490	.39180	.29220	.33410
2.250	22.512	-1.01480	2050.29999	178.26000		2.49530	2.15110	1.82120	1.48560	.37800	.28540	.31750
2.250	24.554	-1.01370	2050.29999	178.26000		2.45360	2.13050	1.75650	1.50260	.37240	.27980	.29390
2.250	25.584	-1.00770	2050.29999	178.14000		2.41590	2.03740	1.71620	1.47560	.36580	.26910	.28040
2.250	GRADIENT	-00010	-17428	-01494		-00298	-00252	00825	00137	.00018	-00733	.00164

(AETROS) (02 AUG 75)

TABULATED DATA - 0A16A (ARC 11-97-87-094)

ARC 11-97-87-094 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ALFON = .000 EDFLAP = -7.170

RUN NO. 443/ 0 RNVL = 2.01 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	.114	.04560	1497.30000	87.84500	3.14720	2.81630	1.71860	1.66620	.40710	.40310	.35470
2.499	2.147	.04520	1497.30000	87.84500	3.14080	2.81960	1.72590	1.67090	.38090	.41720	.33240
2.499	4.196	.04450	1496.60001	87.77300	3.12650	2.81160	1.73160	1.67230	.37100	.36290	.31650
2.499	6.218	.04350	1497.30000	87.84500	3.10950	2.79020	1.74560	1.67230	.35400	.34640	.30040
2.499	8.256	.04270	1497.30000	87.84500	3.09850	2.76350	1.76240	1.68370	.35400	.34760	.30040
2.499	10.293	.04160	1496.60001	87.77300	3.08610	2.73820	1.76790	1.68920	.37910	.32860	.30040
2.499	12.343	.03960	1497.30000	87.84500	3.05670	2.75800	1.78790	1.70520	.37180	.32340	.33450
2.499	14.376	.03800	1496.60001	87.77300	3.03590	2.69290	1.78240	1.71510	.35790	.30740	.32160
2.499	16.410	.03570	1497.30000	87.84500	3.00590	2.64880	1.77510	1.70250	.33450	.28410	.30830
2.499	18.456	.03320	1496.60001	87.77300	2.95190	2.55450	1.77140	1.69310	.32950	.27090	.30220
2.499	20.493	.03080	1497.30000	87.84500	2.88330	2.55450	1.77180	1.69110	.31940	.26490	.29110
2.499	22.548	.02820	1496.60001	87.77300	2.81850	2.50740	1.74580	1.68380	.30550	.25280	.28510
2.499	24.603	.02670	1497.30000	87.84500	2.74810	2.45960	1.73750	1.68380	.29100	.24100	.25570
2.499	26.623	.02480	1496.60001	87.77300	2.71110	2.43020	1.71070	1.66630	.28220	.24360	.25570
GRADIENT		.00057	-1.7206	-.01032	-.00509	-.00116	.00319	.00118	-.00887	-.00968	-.00939

RUN NO. 438/ 0 RNVL = 1.97 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	.060	.14840	2017.80000	51.77200	4.00950	3.57820	1.97250	1.88320	.33970	.29170	.27450
3.040	2.085	.14750	2017.80000	51.77200	4.01830	3.59810	2.00070	1.92200	.35200	.32910	.27680
3.040	4.141	.14700	2017.10001	51.75300	4.01520	3.57700	2.01920	1.91650	.32450	.28530	.25800
3.040	6.135	.14690	2017.80000	51.77200	4.00600	3.56120	2.01920	1.92390	.32390	.28280	.25470
3.040	8.168	.14540	2017.10001	51.75300	3.97920	3.51040	2.03220	1.92610	.31790	.26660	.23290
3.040	10.203	.14130	2017.80000	51.77200	3.97080	3.49590	2.07110	1.93190	.34570	.28760	.28760
3.040	12.242	.14070	2017.10001	51.75300	3.92530	3.45270	2.05920	1.95260	.29570	.23710	.24630
3.040	14.280	.13930	2017.80000	51.77200	3.88590	3.43070	2.06710	1.94400	.28290	.23390	.23380
3.040	16.303	.13840	2017.10001	51.75300	3.85170	3.37650	2.08750	1.97140	.29350	.23800	.23120
3.040	18.344	.13650	2017.80000	51.77200	3.78200	3.39770	2.06850	1.96530	.27120	.20960	.21640
3.040	20.382	.13230	2017.10001	51.75300	3.69390	3.23790	2.04380	1.94460	.27490	.21330	.22700
3.040	22.424	.13250	2017.80000	51.75300	3.62400	3.19590	2.03150	1.94590	.27150	.20970	.22340
3.040	24.493	.13190	2017.10001	51.77200	3.54930	3.14550	2.01930	1.95490	.26520	.21330	.21330
3.040	26.581	.13000	2017.80000	51.77200	3.49110	3.10450	1.98220	1.92470	.26470	.19620	.19650
GRADIENT		.00034	-1.7195	-.00467	.00139	-.00032	.00888	.00987	-.00379	-.00122	-.00497

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - RAKES

1AETRO5 (02 AUG 76)

REFERENCE DATA

SPEC = 2890.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 995.8800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
ALTRON =

.000 ELEVON = .000
.000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 433/ 0 QN/L = 2.00 GRADIENT INTERVAL = -5.00 - 5.00

WACH	ALPHA	BETA	FT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	-1.173	-10250.2639.50000	2645.50000	34.65800	4.86100	4.26830	2.25520	2.11210	.39440	.25310	.27780
3.499	1.634	17120.2642.20001	2642.20001	34.67700	4.86980	4.27230	2.25468	2.11555	.39800	.25730	.27830
3.499	3.636	09980.2640.89899	2640.89899	34.68600	4.88150	4.28070	2.31110	2.16320	.36810	.32220	.28140
3.499	5.895	08920.2644.50000	2644.50000	34.73300	4.86520	4.25350	2.31150	2.15358	.33890	.29870	.26550
3.499	7.924	09710.2645.60001	2645.60001	34.76100	4.82260	4.19870	2.30010	2.14210	.30760	.26180	.23530
3.499	9.951	09530.2646.60001	2646.60001	34.77000	4.78430	4.16170	2.32980	2.16558	.28930	.22230	.21200
3.499	11.972	09570.2647.29999	2647.29999	34.77000	4.73360	4.10110	2.32120	2.15230	.25970	.19550	.18750
3.499	13.998	09510.2652.29999	2652.29999	34.83600	4.69310	4.05090	2.34360	2.17040	.25410	.18790	.20750
3.499	16.028	09320.2653.00001	2653.00001	34.84400	4.64270	4.02600	2.35640	2.19570	.27350	.17840	.17640
3.499	18.053	09050.2650.10001	2650.10001	34.80700	4.55210	3.92510	2.32450	2.17150	.25940	.20990	.20990
3.499	20.101	08710.2651.60001	2651.60001	34.82600	4.47970	3.87920	2.31460	2.20480	.24720	.17390	.18810
3.499	22.129	08380.2652.29999	2652.29999	34.83500	4.37690	3.80550	2.31460	2.18730	.24950	.17390	.17850
3.499	24.155	08500.2651.60001	2651.60001	34.82600	4.26950	3.74980	2.28760	2.17550	.24950	.17390	.17850
3.499	25.183	08680.2651.60001	2651.60001	34.82600	4.25740	3.75410	2.32560	2.22910	.34760	.25680	.24550
GRADIENT		-0.00066	.34406	.00442	.00750	.00520	.01376	.01257	.00336	.00716	.00030

(AETRO6) (02 AUG 75)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .008
 VILRON = .000 BDFCAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-034)

ARC 11-97-87-034 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = +74.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 22/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.598	.095	2.26100	2631.00000	2066.10001	1.03250	1.04850	.98110	.98230	.95120	.94780	.95200
.597	2.139	2.26520	2631.00000	2068.20001	1.03350	1.04990	.98330	.98620	.95020	.94650	.95500
.597	4.199	2.30270	2631.79999	2067.50000	1.03430	1.05130	.98780	.99200	.95030	.94720	.95520
.597	6.261	2.30950	2631.79999	2069.20001	1.03500	1.05010	.98950	.99380	.95030	.94630	.95450
.597	8.390	2.31120	2631.79999	2069.20001	1.03180	1.04800	.98850	.99330	.94950	.94830	.95500
.597	10.483	2.32480	2631.79999	2068.89999	1.02740	1.04300	.98500	.99370	.94770	.94770	.95380
.597	12.530	2.30820	2631.79999	2068.20001	1.02430	1.03940	.98750	.99460	.94610	.94600	.95310
.597	14.785	2.29510	2631.79999	2066.10001	1.01640	1.03040	.98830	.99530	.94420	.94340	.95130
.598	16.902	2.29540	2631.79999	2069.89999	1.00460	1.01880	.98210	.99080	.94080	.93310	.93620
.597	19.016	2.28720	2631.79999	2068.20001	.99550	1.00930	.98210	.99080	.93310	.92470	.92950
.597	21.104	2.28670	2631.79999	2068.89999	.98280	.99760	.97470	.98610	.92760	.92030	.92950
.597	23.191	2.28840	2632.50000	2071.70001	.95640	.99040	.96730	.97970	.92330	.91690	.91830
.595	25.244	2.31300	2631.79999	2068.89999	.94960	.96870	.95870	.97310	.91740	.90930	.91140
.597	GRADIENT	.01016	.19515	.34019	.30044	.00068	.00163	.00236	.00022	.00015	.00005

RUN NO. 19/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.898	.066	2.27070	2115.39999	1253.80000	1.11990	1.15570	1.03980	1.02260	.87630	.87040	.88190
.901	2.161	2.29630	2115.39999	1249.50000	1.12577	1.16210	1.03630	1.06670	.87710	.87700	.88720
.901	4.269	2.31460	2117.60001	1250.20000	1.13900	1.16410	1.04270	1.03020	.87850	.88030	.89050
.901	6.380	2.32300	2116.20001	1250.20000	1.12760	1.15980	1.05010	1.04300	.87520	.87690	.88920
.901	8.493	2.31770	2114.70001	1249.50000	1.12690	1.15890	1.05630	1.05010	.87650	.87740	.89130
.901	10.620	2.32980	2116.89999	1248.10001	1.11900	1.14960	1.05680	1.05410	.87220	.86950	.88720
.901	12.782	2.31150	2116.20001	1253.80000	1.10610	1.13090	1.05760	1.05490	.85360	.85360	.87580
.901	14.935	2.33270	2114.70001	1248.80000	1.09320	1.12180	1.06850	1.06440	.85080	.84570	.86160
.901	17.120	2.33330	2115.39999	1248.80000	1.07650	1.10680	1.06830	1.06590	.84220	.83370	.85260
.901	19.272	2.32860	2116.89999	1250.89999	1.05340	1.08160	1.05940	1.06800	.82340	.82930	.84150
.897	21.373	2.31540	2115.39999	1254.60001	1.02940	1.05770	1.05950	1.07260	.80230	.79560	.81020
.895	23.439	2.31340	2114.70001	1256.70000	.98810	1.02810	1.05600	1.06800	.75390	.76120	.77820
.895	25.493	2.32260	2116.89999	1258.20000	.97000	1.00110	1.05040	1.06280	.73890	.71760	.73230
.895	GRADIENT	.01034	.52395	.85542	.00240	.00290	.00069	.00181	.00062	.00235	.00255

ORIGINAL PAGE IS
OF POOR QUALITY

(AETR067 (02 AUG 75)

PARAMETRIC DATA

BETA = 2.800 ELEVON = .000
ALLRON = .000 BOFEAP = -7.178

TABULATED DATA - 0A161 (ARC 11-97-87-994)

ARC 11-57-87-984 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0008 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	PT	RUN NO.	15/ 0	RNVL =	4.27	GRADIENT INTERVAL =	-5.00	5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.201	.046	2.2780	2010.1000	1000	888.31000	1.39740	1.43630	1.41120	1.41020	.68880	.65510	.66890	.65510	.66890	.65510	.66890	.65510
1.199	2.157	2.2781	2009.6000	1001	828.99000	1.39230	1.43610	1.38250	1.38400	.68900	.66150	.66380	.66150	.66380	.66150	.66380	.66150
1.200	4.278	2.3190	2009.3999	1002	869.00000	1.38420	1.43040	1.39550	1.37550	.68950	.66380	.66550	.66380	.66550	.66380	.66550	.66380
1.197	5.414	2.3200	2010.1000	1003	832.48000	1.38770	1.41780	1.41260	1.38780	.68170	.66080	.66170	.66080	.66170	.66080	.66170	.66080
1.198	8.982	2.3080	2010.1000	1004	831.09000	1.38590	1.41210	1.41330	1.38800	.67800	.66200	.66200	.66200	.66200	.66200	.66200	.66200
1.195	10.744	2.3070	2009.3999	1005	832.47000	1.37130	1.39520	1.37510	1.38830	.67020	.66020	.66020	.66020	.66020	.66020	.66020	.66020
1.193	12.925	2.29030	2010.1000	1006	834.57000	1.35410	1.37560	1.35570	1.37510	.64500	.64500	.64500	.64500	.64500	.64500	.64500	.64500
1.192	15.099	2.32710	2008.6000	1007	836.65000	1.33260	1.35130	1.35560	1.35190	.63110	.63110	.63110	.63110	.63110	.63110	.63110	.63110
1.198	17.314	2.33590	2010.8000	1008	831.78000	1.31070	1.32980	1.32580	1.38830	.62800	.62800	.62800	.62800	.62800	.62800	.62800	.62800
1.191	19.475	2.32410	2008.6000	1009	838.05000	1.27810	1.29240	1.32560	1.39440	.62450	.62450	.62450	.62450	.62450	.62450	.62450	.62450
1.191	21.599	2.31670	2011.5000	1010	842.24000	1.24820	1.26380	1.32450	1.39970	.61730	.61730	.61730	.61730	.61730	.61730	.61730	.61730
1.188	23.732	2.32880	2010.8000	1011	842.24000	1.21620	1.24240	1.31010	1.41600	.60074	.60074	.60074	.60074	.60074	.60074	.60074	.60074
1.192	25.791	2.34860	2010.8000	1012	838.06000	1.18760	1.22500	1.31570	1.41600	.60074	.60074	.60074	.60074	.60074	.60074	.60074	.60074
	GRADIENT	.00936	-.16567		.16294	-.00076	-.00187	-.00370	-.00820								

MACH	ALPHA	BETA	PT	RUN NO.	13/ 0	RNVL =	4.24	GRADIENT INTERVAL =	-5.08	5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.388	.040	2.28240	2046.8000	1000	644.13000	1.58910	1.60090	1.53690	1.62740	.58550	.58550	.58550	.58550	.58550	.58550	.58550	.58550
1.400	2.117	2.26480	2046.8000	1001	643.39000	1.58100	1.60260	1.52700	1.58510	.58360	.58360	.58360	.58360	.58360	.58360	.58360	.58360
1.397	4.233	2.31610	2046.8000	1002	645.61000	1.56950	1.58480	1.55340	1.57530	.58120	.58120	.58120	.58120	.58120	.58120	.58120	.58120
1.399	6.368	2.36560	2047.5000	1003	644.12000	1.57100	1.57110	1.61780	1.60650	.59050	.59050	.59050	.59050	.59050	.59050	.59050	.59050
1.395	8.524	2.32530	2047.5000	1004	647.07000	1.55130	1.59070	1.58940	1.59840	.61030	.61030	.61030	.61030	.61030	.61030	.61030	.61030
1.394	10.680	2.32640	2047.5000	1005	648.94000	1.53740	1.53010	1.62330	1.69590	.62100	.62100	.62100	.62100	.62100	.62100	.62100	.62100
1.396	12.845	2.30130	2047.5000	1006	647.07000	1.52390	1.54500	1.52130	1.61390	.60070	.60070	.60070	.60070	.60070	.60070	.60070	.60070
1.397	15.023	2.33550	2047.5000	1007	646.33000	1.50740	1.49440	1.51530	1.58270	.59530	.59530	.59530	.59530	.59530	.59530	.59530	.59530
1.395	17.226	2.34040	2047.5000	1008	646.34000	1.47820	1.47550	1.44580	1.59660	.59740	.59740	.59740	.59740	.59740	.59740	.59740	.59740
1.397	19.385	2.34040	2047.5000	1009	647.80000	1.45350	1.44500	1.40800	1.58860	.59440	.59440	.59440	.59440	.59440	.59440	.59440	.59440
1.390	21.523	2.35090	2047.5000	1010	652.96000	1.41420	1.42500	1.40210	1.57660	.58180	.58180	.58180	.58180	.58180	.58180	.58180	.58180
1.388	23.537	2.31970	2046.1000	1011	653.73000	1.38270	1.41370	1.40210	1.57660	.56350	.56350	.56350	.56350	.56350	.56350	.56350	.56350
1.385	25.745	2.36000	2049.7000	1012	656.61000	1.34540	1.37950	1.37760	1.57820	.55240	.55240	.55240	.55240	.55240	.55240	.55240	.55240
	GRADIENT	.00809	.00382		.35582	-.00467	-.00457	.00396	-.01259								

(AE7R06) (02 AUG 76)

TABLETED DATA - GANEN (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER - RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 376.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.009 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RUN NO. 392/ 0 RAKL = 3.03 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.040	1.52250	1558.80000	391.36000	1.75640	1.81290	1.43970	1.38600	.59830	.56610	.57830
1.556	2.035	1.52370	1560.89999	391.89000	1.75470	1.80570	1.63750	1.40180	.59690	.56390	.59060
1.556	4.118	1.52170	1562.38999	392.24000	1.75180	1.79050	1.65800	1.40590	.59950	.56200	.59050
1.556	6.189	1.52060	1562.38999	392.24000	1.74980	1.77050	1.53770	1.40540	.60460	.56250	.57480
1.556	8.263	1.52390	1563.80000	392.60000	1.73700	1.75540	1.30830	1.41898	.59140	.57740	.58660
1.556	10.330	1.52410	1563.80000	392.60000	1.72390	1.74060	1.30600	1.42120	.57880	.57560	.55260
1.556	12.377	1.52620	1563.10001	392.42000	1.70130	1.72470	1.30660	1.45240	.56510	.56210	.52510
1.556	14.464	1.53560	1562.38999	392.24000	1.67790	1.70890	1.36530	1.45370	.55730	.49590	.51390
1.556	16.611	1.53560	1562.38999	392.24000	1.65570	1.69080	1.63900	1.39580	.55170	.58830	.48430
1.556	18.708	1.53730	1563.10001	392.42000	1.63550	1.67430	1.93210	1.37590	.54280	.57220	.47820
1.556	20.744	1.53470	1563.89999	393.13000	1.60300	1.63820	1.50690	1.44040	.54730	.53110	.46880
1.556	22.901	1.55140	1567.30000	393.49000	1.55650	1.60270	1.47390	1.34740	.49600	.44370	.43880
1.556	25.950	1.55060	1566.60001	393.31000	1.54060	1.58770	1.45130	1.36460	.48630	.42770	.43670
1.556	GRADIENT	-1.00020	.88167	.21545	-.00084	-.00551	.05124	.00486	.00830	-.00100	.00297

RUN NO. 309/ 0 RAKL = 3.03 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-.074	1.70250	1657.10081	311.25000	1.98690	2.04420	1.33200	1.45620	.56910	.52990	.51680
1.750	1.919	1.70530	1655.70000	310.99000	1.99290	2.03890	1.34670	1.46590	.56580	.52080	.51570
1.750	3.980	1.70490	1655.70000	310.99000	1.99750	2.03780	1.35010	1.47390	.56760	.51680	.52540
1.750	6.061	1.70320	1655.70000	310.99000	1.99468	2.02130	1.39780	1.47960	.57100	.51570	.53450
1.750	8.125	1.70260	1656.39999	311.12000	1.97560	2.00110	1.36480	1.48310	.55820	.53200	.52630
1.750	10.189	1.70570	1656.39999	311.12000	1.95780	1.98790	1.36020	1.49250	.54530	.52870	.50590
1.750	12.252	1.70710	1658.33999	311.12000	1.93150	1.96490	1.35280	1.50170	.53410	.48490	.48250
1.750	14.316	1.71140	1656.39999	310.99000	1.90280	1.93620	1.34390	1.53660	.52470	.46210	.46210
1.750	16.458	1.71370	1655.70000	310.99000	1.87390	1.91930	1.49250	1.50310	.51440	.47620	.45220
1.750	18.550	1.71820	1656.39999	311.12000	1.84730	1.89440	1.56800	1.48290	.51590	.48530	.44540
1.750	20.579	1.72120	1656.39999	311.12000	1.80790	1.85130	1.52910	1.53870	.50950	.47410	.43250
1.750	22.623	1.72990	1655.70001	310.99000	1.78940	1.80400	1.45520	1.53930	.46540	.39920	.41030
1.750	24.729	1.73800	1655.70001	310.99000	1.70090	1.78320	1.44710	1.48910	.45430	.38250	.39040
1.750	25.752	.05749	-.31220	-.06355	.00261	-.00157	.00444	.00435	-.00012	-.00321	.00213

TABULATED DATA - 0A16N (ARC 11-97-87-894)

ARC 11-97-87-094 0A16N ORBITER + RAKES

(AE7R06) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
XILRON = .000 BDFLAP = -7.170

RUN NO. 312/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.996	-0.014	1.18280	1843.10001	236.94000	2.26770	2.30750	1.38690	1.54400	.52000	.49380	.44590
1.996	1.975	1.18340	1843.10001	236.94000	2.26770	2.29230	1.39670	1.56190	.51430	.46710	.44690
1.996	4.041	1.18150	1842.39999	236.84000	2.28240	2.26820	1.41230	1.56250	.52020	.45280	.44980
1.996	8.099	1.18080	1841.70000	236.75000	2.27900	2.25060	1.42100	1.56610	.52170	.44758	.46020
1.996	6.161	1.18130	1842.39999	236.84000	2.26070	2.23160	1.42350	1.56840	.51508	.46180	.46180
1.996	10.216	1.18663	1843.10001	238.94000	2.24380	2.21180	1.42890	1.57310	.49630	.44310	.44310
1.996	12.298	1.18390	1842.39999	236.84000	2.21840	2.19680	1.42720	1.59120	.48920	.41540	.43530
1.996	14.341	1.18100	1842.39999	236.84000	2.18710	2.17660	1.42420	1.65820	.46530	.38910	.41890
1.996	16.477	1.18500	1841.70000	236.75000	2.15350	2.15880	1.41350	1.57800	.46020	.38450	.42250
1.996	18.561	1.19280	1842.39999	236.84000	2.12650	2.13890	1.39500	1.56770	.46480	.39740	.39890
1.996	20.582	1.19500	1843.10001	238.94000	2.09160	2.09540	1.60070	1.57310	.44460	.36600	.38090
1.996	22.659	1.19460	1842.39999	236.84000	2.04500	2.07040	1.54980	1.65050	.43560	.32340	.36690
1.996	24.721	1.20490	1841.70000	236.75000	1.97590	2.03340	1.43330	1.60270	.41900	.33500	.34250
1.996	25.743	1.20540	1842.39999	236.84000	1.94380	2.04600	1.42050	1.55280	.41960	.33040	.32520
1.996	GRADIENT	-.00032	-.17373	-.02482	-.00042	-.00971	.00627	.00453	.00007	-.01009	.00056

RUN NO. 309/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.250	-0.074	1.03880	2059.60001	178.20000	2.55780	2.60050	1.46660	1.61310	.47960	.42580	.37110
2.250	1.899	1.03000	2059.60001	178.20000	2.56180	2.59550	1.48360	1.63100	.46970	.42380	.37110
2.250	3.954	1.02960	2059.60001	178.20000	2.56360	2.58030	1.50070	1.64210	.46640	.40270	.37280
2.250	6.004	1.02880	2059.60001	178.20000	2.54480	2.56170	1.51950	1.65600	.47600	.39140	.38640
2.250	8.059	1.02980	2059.60001	178.20000	2.53800	2.53900	1.52940	1.66380	.47070	.38100	.38100
2.250	10.108	1.03370	2059.60001	178.20000	2.51730	2.53330	1.53530	1.66380	.44540	.35070	.35770
2.250	12.142	1.03480	2058.99999	178.14000	2.49630	2.49690	1.55300	1.66060	.43270	.34710	.35900
2.250	14.211	1.03500	2059.60001	178.20000	2.47850	2.46860	1.55130	1.66290	.41790	.32520	.35710
2.250	16.343	1.03560	2058.99999	178.14000	2.45640	2.44050	1.55490	1.66450	.40740	.31580	.34670
2.250	18.418	1.04090	2058.99999	178.14000	2.41980	2.40790	1.63250	1.65840	.39910	.30640	.33130
2.250	20.432	1.04280	2059.60001	178.14000	2.37010	2.37700	1.66640	1.65750	.39350	.29990	.32080
2.250	22.497	1.04720	2058.99999	178.14000	2.32450	2.33250	1.63560	1.65940	.38110	.28350	.31240
2.250	24.553	1.05660	2058.99999	178.14000	2.27570	2.28270	1.53510	1.64560	.37590	.27140	.30420
2.250	25.573	1.05990	2059.60001	178.20000	2.24930	2.25980	1.50060	1.64900	.37440	.27190	.29890
2.250	GRADIENT	-.00032	-.00002	.00000	-.00353	-.00503	.00847	.00719	-.00327	-.00577	.00042

(AE7R06) (02 AUG 78)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ANURON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ.
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300.

RUN NO. 444/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	.111	2.10290	1489.50000	87.35800	2.89420	3.05030	1.57420	1.81350	.41840	.39270	.36180
2.499	2.167	2.08090	1490.20000	87.40000	2.88840	3.05260	1.57680	1.83020	.41110	.39270	.35030
2.499	4.172	2.06390	1490.20000	87.40000	2.88640	3.04450	1.59300	1.83420	.39890	.36240	.33810
2.499	6.217	2.07310	1490.20000	87.40000	2.86510	3.01320	1.59090	1.84090	.39380	.34100	.34310
2.499	8.250	2.06700	1490.20000	87.40000	2.85570	2.99650	1.61470	1.86590	.41320	.35840	.35840
2.499	10.294	2.05310	1490.20000	87.40000	2.84460	2.98030	1.62280	1.87810	.38680	.33620	.34220
2.499	12.348	2.05000	1490.20000	87.40000	2.81230	2.95840	1.61930	1.87700	.35730	.30860	.31870
2.499	14.388	2.05780	1490.20000	87.40000	2.78340	2.92120	1.60990	1.87540	.34320	.29230	.32290
2.499	16.425	2.05740	1490.20000	87.40000	2.75190	2.87360	1.68580	1.87150	.33190	.27920	.29540
2.499	18.457	2.05970	1490.20000	87.40000	2.71940	2.83300	1.59570	1.87150	.32590	.26300	.27920
2.499	20.512	2.06250	1490.20000	87.40000	2.65730	2.78300	1.56970	1.87890	.31270	.26119	.29150
2.499	22.567	2.06400	1490.20000	87.40000	2.59200	2.74210	1.54160	1.88630	.32070	.24990	.28230
2.499	24.638	2.07170	1490.20000	87.40000	2.53640	2.69170	1.50770	1.89510	.32070	.25180	.26830
2.499	GRADIENT	-.00542	.17310	.01039	-.00192	-.00142	-.00462	.00511	-.00480	-.00725	-.00579

RUN NO. 437/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	.079	2.25050	2018.50000	51.79000	3.60680	3.93200	1.73780	2.14170	.35490	.30350	.27270
3.040	2.139	2.22000	2019.50000	51.80800	3.59990	3.93480	1.75120	2.15450	.35040	.32290	.29210
3.040	4.158	2.21070	2019.50000	51.79000	3.60030	3.91830	1.75410	2.15390	.33140	.28690	.26640
3.040	6.168	2.20230	2019.50000	51.79000	3.60120	3.89860	1.78260	2.17910	.34690	.30250	.27850
3.040	8.196	2.19520	2019.50000	51.79000	3.59780	3.87810	1.81680	2.20650	.35030	.30250	.28190
3.040	10.249	2.18960	2019.50000	51.71700	3.56590	3.82960	1.80480	2.23910	.32910	.28030	.23910
3.040	12.297	2.18810	2019.50000	51.75300	3.51290	3.80380	1.79810	2.21540	.28870	.25030	.22370
3.040	14.296	2.18950	2019.50000	51.73500	3.47640	3.76400	1.80220	2.21540	.27510	.20360	.21010
3.040	16.334	2.18950	2019.50000	51.75000	3.45120	3.72780	1.82590	2.23910	.29620	.23130	.22730
3.040	18.412	2.18530	2017.50000	51.75300	3.37940	3.64980	1.79810	2.22940	.27840	.20660	.21000
3.040	20.412	2.18790	2017.50000	51.77200	3.32140	3.59850	1.78780	2.23620	.29520	.23010	.24720
3.040	22.447	2.19390	2017.50000	51.77200	3.25790	3.51510	1.74620	2.20810	.27150	.19620	.19858
3.040	24.493	2.20000	2017.50000	51.77200	3.16630	3.45740	1.73150	2.22120	.28300	.20770	.20770
3.040	GRADIENT	-.00495	.00133	.00063	-.00160	-.00334	.00645	.00300	-.00573	-.00402	-.00151

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OF POOR QUALITY

ARC 11-97-87-094 04161 ORBITER + RAKES

(AE7R06) 1 02 AUG 76 T

REFERENCE DATA

=	2690.0000	50. FT.	YMRP	=	1076.5800	IN. X0
=	474.8000	IN.	YMRP	=	.0000	IN. Y0
=	936.5800	IN.	ZMRP	=	373.0000	IN. Z0
=	.0300		SCALE			

BETA	=	2,000	ELEVON	=	.000
ALIRON	=	.000	BOFLAP	=	-7,170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	P55/P	P56/P	PS7/P
3.499	-1.753	2.25330	2668.20001	35.05890	4.37080	4.77000	1.95496	2.41480	35780	28710	26590
3.499	1.866	2.24100	2663.50001	35.05800	4.36430	4.77410	1.96600	2.41630	33570	28110	24570
3.499	3.886	2.23470	2668.50000	35.04900	4.37520	4.74400	1.99640	2.44000	34650	28760	26230
3.499	5.894	2.22000	2669.20001	35.05800	4.34390	4.70280	1.97790	2.42280	30950	25400	22360
3.499	7.923	2.21990	2669.70000	35.05800	4.34730	4.70130	2.00000	2.47620	32710	26640	24610
3.499	9.942	2.21410	2667.79999	35.07390	4.33920	4.65240	2.05610	2.50560	32860	25280	25280
3.499	11.962	2.20910	2665.89999	35.06700	4.24080	4.58370	2.01050	2.47560	25630	19050	19050
3.499	14.015	2.20750	2668.50000	35.04900	4.20880	4.53330	2.03350	2.49850	27470	19890	19890
3.499	16.030	2.20860	2669.20001	35.05890	4.15680	4.48010	2.04540	2.52520	27740	20540	19680
3.499	18.065	2.20830	2668.50000	35.04900	4.08540	4.40910	2.03680	2.53760	27660	20570	20070
3.499	20.103	2.20950	2669.89999	35.06700	3.99570	4.31400	1.99990	2.51530	26580	20610	19100
3.499	22.129	2.21520	2667.79999	35.03900	3.94340	4.27180	2.00830	2.54890	29550	21970	20350
3.499	24.173	2.22330	2668.89999	35.06700	3.83580	4.17420	1.96170	2.52240	29330	18970	18970
3.499	25.184	2.22300	2668.79999	35.03900	3.76530	4.12530	1.93570	2.51220	25690	17600	17600
CRASH		-0.00268	2667.17986	35.00221	3.66107	-0.06538	1.90993	2.50619	-0.0238	0.0012	-0.0115

(AETR07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-08*)

ARC 11-97-87-03* 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 995.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 23* 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.108	5.34530	2630.29999	2067.50000	1.00970	1.06990	.97080	.98390	.95100	.94380	.95180
.597	2.153	5.37120	2631.00000	2068.20001	1.01140	1.07210	.97450	.98810	.94970	.94390	.95260
.597	4.224	5.37910	2631.00000	2067.50000	1.01208	1.07340	.97480	1.00360	.94970	.94480	.95270
.598	6.310	5.38020	2631.79999	2066.10001	1.01310	1.07410	.97560	1.00790	.94840	.94380	.95300
.597	8.400	5.38740	2631.79999	2068.89999	1.00880	1.06820	.97700	1.00640	.94860	.94480	.95350
.597	10.525	5.37820	2631.79999	2057.50000	1.00680	1.06820	.97780	1.00670	.94800	.94570	.95380
.596	12.645	5.37300	2631.79999	2070.29999	1.00290	1.06050	.97460	1.00810	.94740	.94270	.95180
.595	14.759	5.36710	2632.50000	2070.29999	.99320	1.05320	.97400	1.00540	.94270	.93760	.94960
.596	16.865	5.36910	2632.50000	2069.60001	.98160	1.04270	.96770	1.00380	.93790	.93150	.94750
.598	18.976	5.37010	2632.50000	2066.10001	.97320	1.03420	.96740	1.08550	.93550	.92910	.94020
.597	21.080	5.38090	2631.79999	2068.20001	.98990	1.02780	.96000	1.00100	.93140	.92140	.93340
.597	23.164	5.38600	2632.50000	2058.89999	.94720	1.02910	.95250	.99570	.92760	.91860	.92710
.597	25.228	5.43940	2632.50000	2068.89999	.92780	.99440	.94580	.99100	.92490	.91090	.91660
.597	GRADIENT	.00820	.16873	-.00071	.00895	.00885	.00168	.00236	-.00032	.00027	.00022

RUN NO. 20/ 0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.899	.080	5.38560	2112.63001	1250.30008	1.07070	1.20930	1.02610	1.04080	.87280	.85890	.87450
.900	2.171	5.35620	2115.39999	1250.89999	1.07450	1.21520	1.01980	1.04760	.87540	.86390	.88220
.901	4.284	5.40850	2115.39999	1249.50000	1.07760	1.21540	1.02470	1.05360	.87570	.86840	.87920
.901	6.401	5.41170	2112.60001	1248.80000	1.07950	1.21460	1.02700	1.07670	.87670	.87330	.88240
.894	8.518	5.40540	2116.20001	1255.89999	1.07130	1.20390	1.02740	1.07010	.87000	.86860	.87860
.902	10.653	5.40310	2115.39999	1248.10001	1.07260	1.20800	1.04180	1.07790	.87430	.87020	.88580
.900	12.786	5.40140	2114.00000	1249.50000	1.05950	1.19060	1.04320	1.08000	.85770	.85030	.86510
.900	14.917	5.42460	2114.70001	1253.10001	1.04000	1.17520	1.04420	1.08620	.85430	.83950	.85760
.899	17.074	5.43600	2116.89999	1252.39999	1.02130	1.15700	1.03520	1.06680	.84090	.83080	.85430
.899	19.222	5.45000	2114.70001	1253.30000	.99770	1.13490	1.03460	1.09200	.82350	.81890	.83310
.895	21.345	5.45420	2114.00000	1259.60001	.97180	1.11250	1.03800	1.08880	.80360	.79460	.80710
.893	23.441	5.45100	2117.60001	1248.80000	.95310	1.09620	1.04720	1.10230	.76760	.75620	.76620
.902	25.453	5.45220	2114.70001	1264.70000	.90900	1.05630	1.02710	1.08650	.73760	.73520	.74620
.893	GRADIENT	.03545	.65477	-.19107	.00164	.00145	-.00033	-.09304	.00069	.00226	.00111

(AET707) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - OAI61 (ARC 11-97-87-004)
ARC 11-97-87-004 OAI61 ORBITER - RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.8600 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.084	5.38440	2010.80000	1.31410	1.53450	1.38760	1.41330	.68550	.65250	.66420
1.201	2.182	5.42390	2010.80000	1.31410	1.53450	1.38760	1.41330	.68550	.65250	.66420
1.199	4.304	5.41990	2010.10000	1.31456	1.52980	1.35030	1.40330	.68280	.65100	.66760
1.195	6.446	5.41170	2010.80000	1.30770	1.50910	1.40390	1.40390	.68240	.64240	.65560
1.197	8.606	5.41240	2010.10000	1.30020	1.50050	1.35030	1.41530	.67310	.63080	.64540
1.197	10.780	5.39100	2011.50000	1.29120	1.49050	1.34500	1.40410	.66370	.62630	.63740
1.196	12.927	5.39680	2011.50000	1.28430	1.47650	1.34000	1.40870	.66160	.61750	.63750
1.197	15.090	5.41750	2011.50000	1.25430	1.44770	1.33150	1.40200	.65850	.61600	.63430
1.193	17.249	5.45190	2009.39999	1.22490	1.42170	1.27710	1.38980	.64920	.57750	.59950
1.191	19.420	5.46330	2010.80000	1.19350	1.39790	1.26240	1.41470	.63800	.56990	.59470
1.191	21.561	5.46530	2010.10000	1.16900	1.37370	1.25550	1.42970	.61450	.54690	.57630
1.193	23.670	5.47900	2010.10000	1.13480	1.34770	1.25550	1.43950	.63300	.54690	.57630
1.199	25.761	5.49450	2011.50000	1.10310	1.31150	1.19330	1.43300	.61750	.52570	.57250
1.186	GRADIENT	.00823	.16522	.00012	.00216	.00392	.00438	.00064	.00036	.00061

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.406	.065	5.39060	2047.50000	1.50420	1.75810	1.47140	1.25550	.62740	.56910	.58760
1.408	2.145	5.46540	2049.00000	1.49390	1.73110	1.45510	1.66100	.62680	.57220	.60780
1.399	4.262	5.43010	2047.50000	1.46780	1.72170	1.48530	1.65480	.62940	.57680	.61320
1.398	6.395	5.41630	2047.50000	1.47700	1.70320	1.49830	1.67450	.62740	.56960	.60660
1.395	8.544	5.42770	2047.50000	1.46290	1.68540	1.50050	1.67780	.62320	.56190	.58190
1.395	10.740	5.40550	2048.29999	1.44890	1.66810	1.46980	1.66480	.62120	.55550	.56450
1.393	12.890	5.39960	2048.29999	1.43030	1.64870	1.42130	1.63620	.61640	.55920	.56390
1.393	15.000	5.42630	2048.29999	1.41450	1.63300	1.44540	1.69030	.61590	.51170	.54320
1.393	17.182	5.43520	2048.29999	1.37210	1.60060	1.35140	1.66170	.60950	.49830	.52340
1.390	19.335	5.46330	2048.29999	1.34580	1.57280	1.32100	1.63350	.60840	.49830	.52340
1.387	21.481	5.48180	2049.70000	1.32090	1.55000	1.29890	1.60480	.59930	.49830	.52340
1.386	23.590	5.48690	2048.29999	1.27890	1.52420	1.26640	1.60690	.57880	.49580	.50770
1.387	25.705	5.48490	2049.70000	1.24690	1.49470	1.25710	1.60690	.57170	.49580	.50770
1.367	GRADIENT	.00933	.00213	.00390	.00394	.00334	.01681	.00048	.00164	.00609

TABULATED DATA - 0A161 (ARC 11-97-87-094)

PAGE 189

ARC 11-97-87-094 0A161 ORBITER + RAKES

1AETROT1 (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 301/ 0 RNVL = 3.03 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.555	.026	4.56670	1549.60001	389.05000	1.64640	1.56180	1.18840	1.54690	.58780	.56460	.55450
1.556	2.042	4.56210	1551.00000	389.40000	1.64700	1.95790	1.19680	1.53720	.58820	.55090	.55550
1.556	4.115	4.56310	1551.80000	389.58000	1.64230	1.94790	1.31046	1.54300	.58960	.54860	.57220
1.556	6.194	4.55990	1552.50000	399.76000	1.63990	1.93000	1.30680	1.55690	.58870	.54820	.58140
1.556	8.262	4.56200	1556.70000	399.82000	1.63910	1.91450	1.21480	1.56900	.58370	.53240	.56870
1.556	10.331	4.56110	1556.20000	391.71000	1.60970	1.89950	1.20660	1.56720	.59198	.57790	.55970
1.555	12.379	4.56860	1557.39999	391.00000	1.59090	1.87810	1.33990	1.56220	.57660	.56650	.53870
1.556	14.462	4.57190	1558.00000	390.65000	1.56700	1.86080	1.48100	1.56840	.56310	.54930	.52090
1.556	16.508	4.57840	1558.70000	390.82000	1.53360	1.84020	1.40510	1.55030	.56340	.58290	.51480
1.556	18.707	4.58310	1557.39999	391.00000	1.50380	1.82060	1.39750	1.53360	.59590	.59770	.48630
1.556	20.736	4.59160	1558.00001	391.18000	1.47900	1.79160	1.36160	1.53370	.54490	.48050	.46458
1.556	24.895	4.59820	1558.50000	391.53000	1.41840	1.74100	1.25800	1.49540	.50540	.44240	.45570
1.556	25.912	4.60540	1556.00008	390.65000	1.40110	1.72770	1.23780	1.49540	.49860	.43470	.44709
	GRADIENT	-.03087	.53732	.12942	-.00101	-.00341	.02995	-.00034	.00041	-.00390	.00432

RUN NO. 310/ 0 RNVL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-.077	4.75100	1655.70000	310.99000	1.83560	2.23560	1.20310	1.61850	.54890	.53120	.49240
1.750	1.918	4.74770	1655.70000	310.99000	1.84129	2.23280	1.21330	1.63100	.55010	.51470	.49640
1.750	3.992	4.74880	1655.70000	310.99000	1.82520	2.22460	1.22630	1.62860	.55360	.49940	.49940
1.750	6.096	4.74840	1659.39999	311.12000	1.81050	2.20880	1.23610	1.63670	.55080	.48690	.50180
1.750	8.127	4.75390	1655.70000	310.99000	1.80680	2.19470	1.22920	1.64690	.56630	.49700	.52550
1.750	10.190	4.74920	1656.70000	310.99000	1.78560	2.17310	1.22750	1.65600	.55400	.50330	.50780
1.750	12.232	4.75260	1659.00000	310.85000	1.78260	2.15610	1.23940	1.66020	.54040	.47020	.48950
1.750	14.317	4.75708	1656.39999	311.12000	1.79930	2.13040	1.41750	1.66020	.52740	.53880	.46750
1.750	16.459	4.76320	1655.70000	310.93000	1.69730	2.10130	1.39960	1.64990	.51830	.49280	.45780
1.750	18.547	4.76680	1655.00000	310.85000	1.68520	2.07630	1.37750	1.63510	.51890	.46870	.44470
1.750	20.574	4.76810	1655.00000	310.85000	1.63790	2.04500	1.29510	1.61350	.50580	.42870	.43440
1.750	24.717	4.76840	1658.39999	311.12000	1.56640	1.98250	1.20440	1.60930	.47450	.40210	.47120
1.750	25.748	4.78120	1656.70000	310.93000	1.52980	1.97200	1.18280	1.60770	.46650	.38740	.39770
	GRADIENT	-.00063	-.00001	.09000	-.00259	-.00271	.09571	.00246	.00116	-.00781	.00172

(AE7897) (02 AUG 76)

ABC 11-97-87-094 OA161 ORBITER + RAKES

PARAMETRIC DATA

7.170
000

**BETA
ALFON**

REFERENCE DATA						
=	2690.0000	SQ.FT.	XMRP = 1075.6800	IN.	XO	
=	474.8000	IN.	YMRP =	.0000	IN.	YO
=	936.6800	IN.	ZMRP =	375.0000	IN.	ZO
=	SCALE	SCALE	=	.0300		

MACH.	ALPHA.	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.936	-0.17	4.22740	1834.00000	235.75000	2.03660	2-52150	1.24950	1.69340	51580	45790	43930
1.936	1.974	4.22430	1831.10001	235.39000	2.05150	2-51920	1.25980	1.70040	50950	45280	43820
1.936	4.935	4.22380	1831.10001	235.39000	2.03760	2-50160	1.26270	1.70880	50510	45120	43720
1.936	6.098	4.22310	1831.20000	235.39000	2.03270	2-48410	1.27240	1.71720	50080	4488	42950
1.936	8.157	4.22250	1833.20000	235.65000	2.01350	2-45980	1.2780	1.73080	50000	44190	43370
1.936	10.245	4.22460	1834.70892	235.84000	1.99240	2-44260	1.27410	1.73470	49890	43549	42540
1.936	12.255	4.22460	1834.70892	235.84000	1.98736	2-42410	1.27230	1.73950	47630	38500	40480
1.936	14.335	4.22670	1839.63031	236.48000	1.95200	2-40270	1.34610	1.73380	47450	38230	40160
1.936	16.473	4.22930	1845.30000	237.03000	1.92820	2-38430	1.40930	1.73000	46500	37270	39410
1.936	18.555	4.23360	1843.89999	237.03000	1.90860	2-36470	1.40370	1.72160	45520	36330	38330
1.936	20.577	4.23470	1843.89999	237.03000	1.88150	2-34440	1.33340	1.72420	44950	35410	37410
1.936	22.654	4.24270	1843.89999	237.03000	1.81190	2-32880	1.27790	1.73210	43990	34830	36330
1.936	24.713	4.25180	1843.89999	236.84000	1.76250	2-23020	1.20200	1.72820	42650	32550	33780
1.936	26.775	4.25180	1843.89999	236.84000	1.73250	2-20870	1.18070	1.73180	41810	32220	33780
1.936	28.793	4.25180	1843.89999	236.84000	1.73250	2-20870	1.18070	1.73180	41810	32220	33780
1.936	30.793	4.25180	1843.89999	236.84000	1.73250	2-20870	1.18070	1.73180	41810	32220	33780

MACH	ALPHA	BETA	PT	RN/L	GRADIENT INTERVAL	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.250	0.075	4.07550	2058.63001	178.20000	2.32460	1.32930	1.84810	0.00000	40130	35240
2.250	1.000	4.07410	2058.88999	178.14000	2.31380	1.34330	1.85570	4.7610	39938	37440
2.250	3.054	4.06870	2058.60001	178.20000	2.30870	1.36530	1.86618	4.7240	36780	35880
2.250	6.095	4.07030	2058.60001	178.20000	2.29760	1.37560	1.88100	4.7610	37650	37760
2.250	8.099	4.07180	2058.89999	178.14000	2.27750	1.38220	1.89660	4.6670	35620	35620
2.250	10.107	4.07670	2058.60001	178.20000	2.26380	1.39180	1.90100	4.4800	33560	35450
2.250	12.139	4.07670	2058.89999	178.14000	2.26750	1.38930	1.90960	4.2630	31480	33370
2.250	14.212	4.07440	2058.89999	178.14000	2.25390	1.38970	1.91559	4.0530	30320	33210
2.250	16.338	4.07780	2058.60001	178.20000	2.22550	1.44480	1.91480	4.0530	29970	31670
2.250	18.413	4.08130	2058.89999	178.14000	2.18750	1.50850	1.91560	4.0800	30150	31340
2.250	20.426	4.08350	2058.60001	178.20000	2.15900	1.44310	1.91590	3.9810	28850	31650
2.250	22.494	4.08440	2058.89999	178.14000	2.10120	1.33160	1.91950	3.9810	28480	29550
2.250	24.545	4.09480	2058.89999	178.14000	2.05860	1.28100	1.90650	3.7750	26600	27300
2.250	26.565	4.09500	2058.89999	178.14000	2.03870	1.23060	1.90260	3.8150	26600	26870
2.250	28.565	4.09500	2058.89999	178.14000	2.00447	1.20048	1.90447	1.1644	00356	00364

ENCLOSURE

(AETRO7) (02 AUG 76)

T-BULATED DATA - 04161 (ARC 11-87-87-094)

ARC 11-97-87-094 04161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0080 50. FT. XRRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YRRP = .0000 IN. Y0
BREF = 936.6800 IN. ZRRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
AIRLON =

5.000 ELEVON = .000
.0000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 4457 0 RNL = 2.01 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	.099	5.18510	1490.20000	87.40000	2.54340	3.44170	1.36310	2.09320	.42830	.37950	.37150
2.499	2.128	5.15910	1490.20000	87.40000	2.54700	3.43140	1.36670	2.10480	.42120	.37250	.36630
2.499	4.178	5.13610	1490.20000	87.40000	2.53750	3.42400	1.35580	2.12120	.41520	.36560	.35440
2.499	6.242	5.11880	1490.20000	87.40000	2.51750	3.40480	1.33810	2.12450	.39990	.33760	.32290
2.499	8.248	5.10470	1490.20000	87.40000	2.50800	3.37840	1.40830	2.15090	.39990	.32690	.32280
2.499	10.234	5.09510	1490.20000	87.40000	2.49870	3.35060	1.4180	2.16820	.37960	.33310	.31670
2.499	12.358	5.08820	1490.20000	87.40000	2.47400	3.34010	1.40090	2.16170	.34820	.27920	.29730
2.499	14.395	5.08540	1490.20000	87.40000	2.46160	3.30550	1.32580	2.18000	.28150	.29390	.29390
2.499	16.421	5.08200	1490.20000	87.40000	2.41900	3.26820	1.32440	2.19550	.28050	.29870	.29870
2.499	18.454	5.07810	1490.20000	87.40000	2.37400	3.22120	1.32480	2.19970	.26820	.27130	.27130
2.499	20.513	5.07490	1490.20000	87.40000	2.32030	3.15880	1.31480	2.20470	.25390	.24430	.24430
2.499	22.557	5.07170	1490.20000	87.40000	2.26300	3.08250	1.28750	2.19310	.24270	.23570	.23570
2.499	24.595	5.06830	1490.20000	87.40000	2.20870	3.04100	1.26370	2.20870	.23210	.23110	.23110
2.499	26.631	5.06470	1490.20000	87.40000	2.18400	3.00560	1.24190	2.20530	.22110	.22110	.22110
2.499	28.661	5.06125	1490.20000	87.40000	2.00317	2.90434	.00661	.00667	.00321	.00319	.00319

RUN NO. 4354 0 RNL = 1.96 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	.098	5.34500	2019.30000	91.80880	3.08470	4.48020	1.45430	2.59740	.38420	.30380	.29870
3.040	2.155	5.32410	2017.10000	91.75300	3.06590	4.46370	1.46360	2.51570	.38220	.29220	.27320
3.040	4.170	5.30100	2017.80000	91.72200	3.06900	4.45050	1.46230	2.53900	.38690	.28690	.26500
3.040	6.207	5.28370	2018.50000	91.79900	3.06320	4.42080	1.49250	2.55400	.35790	.28700	.25560
3.040	8.224	5.26870	2017.80000	91.77200	3.06330	4.40020	1.52150	2.58490	.3310	.2310	.2310
3.040	10.250	5.25980	2018.50000	91.79900	3.02570	4.37180	1.50190	2.59860	.2570	.2310	.2310
3.040	12.321	5.25170	2017.80000	91.77200	2.98800	4.31770	1.48660	2.60500	.20520	.20520	.20520
3.040	14.331	5.24540	2018.50000	91.79900	2.95760	4.26140	1.47920	2.60500	.20520	.20520	.20520
3.040	16.357	5.23940	2018.50000	91.77200	2.92100	4.21080	1.47390	2.62340	.20520	.20520	.20520
3.040	18.394	5.23350	2018.50000	91.75000	2.85490	4.14510	1.44480	2.63240	.19340	.19340	.19340
3.040	20.430	5.22660	2018.50000	91.72200	2.82070	4.09710	1.44480	2.63240	.19340	.19340	.19340
3.040	22.464	5.21810	2018.50000	91.79900	2.75660	4.00130	1.40250	2.67010	.18220	.18220	.18220
3.040	24.501	5.20940	2017.80000	91.77200	2.70070	3.94710	1.38590	2.66980	.19400	.19400	.19400
3.040	26.523	5.20070	2018.50000	91.79900	2.65250	3.89100	1.34820	2.64700	.17280	.17280	.17280
3.040	28.541	5.19170	2018.50000	91.77200	.00188	.00729	.00687	.00774	.00491	.00491	.00491

GRADIENT

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 435/ 0 RV/L = 2.00 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	.143	5.47560	2682.00000	35.22500	3.88550	5.52320	1.58130	2.93560	36300	26240	25730
3.499	1.838	5.44800	2682.00000	35.22500	3.69500	5.51840	1.63058	2.97170	39490	29440	27930
3.499	3.855	5.42950	2679.79999	35.19700	3.68110	5.51140	1.63450	2.98210	37230	29190	27570
3.499	5.891	5.40310	2682.00000	35.22500	3.66130	5.46560	1.62080	2.98280	34920	28390	27470
3.499	7.913	5.39590	2679.79999	35.19700	3.65330	5.43180	1.63800	3.00840	33310	27430	27120
3.499	9.949	5.38150	2682.00000	35.22500	3.60050	5.37820	1.61870	3.00720	29070	25010	24190
3.499	11.979	5.37800	2679.79999	35.19700	3.55260	5.31600	1.60780	3.02860	27260	23900	23190
3.499	14.010	5.37510	2682.00000	35.22500	3.51770	5.25000	1.59410	3.04490	25010	21850	21590
3.499	16.029	5.37460	2680.60001	35.20600	3.46300	5.16990	1.58960	3.06990	23900	20760	20450
3.499	18.059	5.38210	2679.79999	35.19700	3.46300	5.02120	1.58660	3.12600	21870	18950	18450
3.499	20.100	5.39070	2682.00000	35.20600	3.39130	4.83320	1.53420	3.08620	20820	16960	16450
3.499	22.131	5.40290	2680.60001	35.19700	3.23090	4.65590	1.52930	3.11510	18950	15050	14550
3.499	24.167	5.42330	2679.79999	35.20600	3.16350	4.48670	1.52930	3.11510	17690	13660	13150
3.499	25.177	5.43320	2680.60001	35.20600	3.16350	4.30870	1.47640	3.08620	15750	11690	11180
3.499	GRADIENT	-.01139	-.54264	-.00651	.00634	-.00538	.01316	.01149	.00231	.00730	.00014

ARC 11-97-87-094 0A161 ORBITER - TUFTS

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 997 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.497	.143	4.93990	2605.60001	2048.29999	1.08500	1.00220	.99830	.96750	.94950	.94420	.93550
3.497	4.203	4.94450	2606.29999	2049.10001	1.08890	1.00660	1.00990	.98460	.94870	.94470	.93430
3.497	8.358	4.92300	2606.29999	2049.79999	1.08850	1.00150	1.01040	.97150	.94800	.94480	.93480
3.497	12.478	4.91820	2607.00000	2049.79999	1.08390	.99820	1.01050	.96960	.94550	.94730	.93530
3.497	16.587	4.89530	2607.00000	2049.79999	1.07810	.99230	1.01080	.97130	.94700	.94670	.93520
3.497	20.682	4.87690	2607.70001	2049.79999	1.07080	.98460	1.00890	.96710	.94360	.94480	.93470
3.497	24.793	4.88330	2607.70001	2049.79999	1.06130	.97560	1.00890	.96190	.94070	.94040	.93350
3.497	28.015	4.90020	2607.70001	2050.50000	1.05770	.95110	.99310	.94080	.93180	.92990	.93350
3.497	GRADIENT	-.00416	.17241	-.00651	.00071	.03108	.00283	.00175	-.00080	.00012	.00010

(AETROB) (02 AUG 76)

PARAMETRIC DATA

BETA =
AILRON =
-5.000 ELEVON = .000
.000 BDFLAP = -7.170

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(AETRO7) (02 AUG 76)

PARAMETRIC DATA

BETA =
AILRON =
5.000 ELEVON = .000
.000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0600 SQ.FT. XPRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YPRP = .0000 IN. YO
 BREF = 936.6800 IN. ZPRP = 375.0000 IN. ZO
 SCALE = .0380

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

RUN NO. 100/ 0 RM/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.796	.117	-4.95780	2186.20001	1.17270	1.01810	.99990	.94450	.90270	.89680	.94190
.798	4.235	-4.95140	2187.60001	1.17980	1.02500	1.02570	.93420	.90220	.90220	.91520
.797	8.448	-4.94380	2187.60001	1.17430	1.02070	1.03040	.95000	.90200	.90330	.91650
.798	13.577	-4.93760	2229.29999	1.17290	1.01110	1.03690	.94730	.90180	.90840	.91930
.795	12.699	-4.91630	2230.00000	1.16960	1.00230	1.03660	.94950	.89260	.89730	.91280
.799	14.828	-4.91790	2230.00000	1.15240	.98390	1.03660	.95340	.88710	.89230	.90430
.796	16.946	-4.92730	2230.00000	1.13700	.97650	1.03060	.94360	.88230	.87970	.89440
.795	21.232	-4.94780	2230.70001	1.09970	.93050	1.01220	.91610	.86490	.86470	.86880
GRADIENT		-0.00027	.34002	.00172	.00168	.00627	.00478	.00073	.00131	.00050

RUN NO. 110/ 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.850	.105	-4.95770	2177.70001	1.20940	1.03050	1.00750	.93290	.88650	.89550	.89000
.851	4.246	-4.95080	2177.70001	1.21350	1.03870	1.03470	.95060	.89010	.89180	.90530
.848	8.470	-4.93920	2177.70001	1.20830	1.03010	1.04490	.96230	.88930	.89330	.90630
.848	10.595	-4.92980	2177.70001	1.20290	1.02460	1.04910	.96110	.88330	.88540	.90220
.847	12.714	-4.91690	2177.00000	1.19150	1.01070	1.05890	.95970	.87560	.87840	.89420
.846	14.846	-4.92350	2177.70001	1.18070	.99910	1.05230	.96170	.87000	.87320	.88640
.849	16.975	-4.92950	2177.00000	1.16650	.98300	1.04720	.95260	.86350	.86760	.88410
.846	21.252	-4.95170	2178.39999	1.12500	.93350	1.02600	.92210	.83460	.83430	.84300
GRADIENT		.03167	.00000	.09101	.00181	.00667	.00427	.00067	.00128	.00453

RUN NO. 111/ 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.105	-4.95550	2088.60001	1.24970	1.05080	1.02330	.93510	.87160	.87700	.87470
.902	4.261	-4.97350	2087.20001	1.25990	1.05620	1.05410	.95440	.87440	.88770	.89290
.900	8.474	-4.95250	2087.89999	1.24790	1.04790	1.06350	.97068	.87750	.87950	.89120
.901	10.612	-4.94510	2086.39999	1.24230	1.03940	1.07090	.97670	.86930	.86950	.87920
.897	12.727	-4.92900	2085.70001	1.23230	1.02550	1.07230	.97210	.85940	.86250	.86720
.897	14.861	-4.93440	2086.39999	1.21830	1.01160	1.07350	.97350	.84720	.84510	.85490
.899	16.925	-4.94010	2085.70001	1.20370	.99470	1.06540	.96540	.84190	.83930	.84620
.902	21.284	-4.97530	2087.20001	1.16540	.94790	1.03270	.94290	.80450	.79690	.82370
GRADIENT		-0.0190	-.33565	.06245	.00130	.00741	.00464	.00057	.00317	.00197

(AE7R081 (02 AUG 76)

TABULATED DATA - OA16L (ARC 11-97-87-094)
 ARC 11-97-87-094 OA16L ORBITER + TUFTS

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = -5.080 ELEVON = .000
 ALIRON = .000 SDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
.950	.112	-4.97210	2056.08000	1150.70800	1.29870	1.07910	1.05300	.95020	.82550	.81680	.82840
.948	4.275	-4.97530	2055.29899	1152.80000	1.30000	1.08350	1.07880	.98240	.83330	.82310	.83330
.949	8.519	-4.95560	2056.00000	1152.10001	1.29650	1.07460	1.08420	1.00000	.85650	.83800	.83550
.947	10.652	-4.95620	2055.00000	1154.20000	1.28750	1.06290	1.09950	1.00240	.82030	.81350	.83710
.947	12.785	-4.94230	2055.29999	1154.20000	1.27840	1.04980	1.10230	1.00530	.81770	.81260	.82760
.946	14.929	-4.93310	2056.00000	1155.60001	1.26100	1.03340	1.09780	.99740	.79680	.78610	.81390
.946	17.073	-4.94750	2055.29999	1154.89999	1.24580	1.01540	1.09460	.99080	.79470	.78510	.79070
.946	21.357	-4.94430	2056.00000	1153.50000	1.28190	.98230	1.07910	.96130	.73800	.72590	.73460
GRADIENT		.00101	-.16816	.50446	.00031	.00106	.00620	.00774	.00154	.00732	.00132

RUN NO. 120/ 0 RV/L = 4.20 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
.983	.120	-4.97160	2067.39999	1113.50000	1.33860	1.10750	1.08220	.97000	.77470	.76350	.75980
.979	4.295	-4.96560	2054.50000	1117.10001	1.33740	1.10720	1.10750	1.00580	.78120	.77780	.78430
.983	8.550	-4.95330	2068.79999	1114.20000	1.33580	1.10240	1.12400	1.02700	.77600	.76940	.76930
.981	10.692	-4.93310	2053.79999	1114.89999	1.32550	1.08930	1.12870	1.02600	.77890	.77330	.78450
.975	12.834	-4.91560	2053.10001	1119.89999	1.30950	1.07080	1.12540	1.02470	.76930	.76620	.77930
.983	14.935	-4.93250	2063.79999	1115.60001	1.28850	1.05860	1.12570	1.02280	.75900	.75390	.76220
.978	17.144	-4.94320	2063.10001	1118.50000	1.27780	1.03260	1.11830	1.06980	.74770	.74100	.74100
.979	21.471	-4.95360	2064.50000	1117.80000	1.23130	.97310	1.09710	.97970	.71250	.69820	.70080
GRADIENT		.00144	-.69457	.88224	-.00029	-.64007	.00594	.00857	.00156	.00342	.00342

RUN NO. 130/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
1.050	.123	-4.98830	2040.50000	1015.50000	1.44030	1.19470	1.19960	1.03890	.72500	.70580	.71480
1.049	4.301	-4.95960	2041.20000	1017.00000	1.44040	1.18630	1.18790	1.08210	.71750	.70480	.71440
1.047	8.566	-4.94610	2041.20000	1019.80000	1.42870	1.17010	1.19870	1.09360	.70730	.69570	.69770
1.049	10.716	-4.94380	2041.20000	1017.70000	1.42240	1.15770	1.20710	1.09960	.70450	.68970	.68980
1.049	12.871	-4.93310	2041.20000	1017.00000	1.41140	1.14550	1.20550	1.09940	.70090	.68580	.68080
1.049	15.041	-4.94120	2041.20000	1018.40000	1.39100	1.12040	1.19990	1.08660	.69560	.67410	.67530
1.045	21.535	-4.96550	2043.30000	1023.30000	1.31650	1.02960	1.16140	1.03560	.65060	.61490	.61490
GRADIENT		.00448	.16755	.33509	.00002	.00014	.00677	.01035	-.00180	-.00048	-.00070

(AE7R08) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2590.000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8900 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -5.008 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RUN NO. 131/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
1.100	.121	-4.98900	2013.6000	943.27000	1.50350	1.21570	1.20220	1.05860	.70550	.68470	.68560
1.099	.4.299	-4.97370	2012.2000	943.95000	1.50138	1.21510	1.23420	1.11540	.70330	.68750	.68500
1.097	8.564	-4.95200	2013.6001	945.75000	1.48580	1.19280	1.24100	1.12840	.68768	.67000	.68490
1.097	10.718	-4.94540	2012.2000	946.05000	1.47870	1.18220	1.24960	1.13410	.68040	.67140	.65110
1.097	12.872	-4.94280	2012.8999	946.05000	1.46160	1.16270	1.24720	1.13310	.68928	.68990	.65940
1.095	15.048	-4.95798	2012.8999	948.16000	1.44140	1.13630	1.23040	1.11440	.68340	.66150	.65300
1.095	17.208	-4.95200	2012.2000	948.15000	1.42300	1.11240	1.22240	1.10640	.67880	.65940	.64010
1.095	21.534	-4.97310	2014.3000	947.47000	1.36830	1.03790	1.16930	.99320	.64410	.59600	.58780
	GRADIENT	.00365	-.33510	.16278	-.00053	-.00014	.00766	.01355	-.08053	.00067	-.00314

RUN NO. 138/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
1.149	.109	-4.98050	2005.1000	883.30000	1.56030	1.24300	1.23980	1.07700	.78030	.67840	.67920
1.149	.4.282	-4.96990	2003.7000	881.90000	1.55710	1.23740	1.26810	1.12370	.69500	.68370	.68870
1.147	8.565	-4.95110	2005.8000	886.10000	1.53890	1.21270	1.27170	1.13900	.67320	.65350	.64530
1.149	10.710	-4.94950	2005.1000	885.30000	1.53050	1.20330	1.27820	1.14340	.67680	.65070	.64030
1.150	12.868	-4.95550	2004.3999	881.91000	1.51830	1.18370	1.27400	1.13000	.67560	.64920	.63930
1.145	15.043	-4.95170	2005.1000	886.09000	1.49640	1.15680	1.25200	1.10710	.67690	.64130	.63070
1.145	17.205	-4.96410	2005.1000	886.09000	1.47460	1.12840	1.23020	1.04860	.66400	.63610	.62260
1.145	21.535	-4.97480	2007.2000	888.20000	1.42010	1.05320	1.17250	1.00750	.63730	.62210	.57960
	GRADIENT	.00254	-.33555	-.33555	-.00077	-.00134	.00678	.01119	-.00127	.00127	.00084

RUN NO. 141/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
1.193	.102	-4.98160	1998.7000	826.83000	1.69660	1.25890	1.27730	1.08850	.67390	.65060	.64810
1.193	.4.277	-4.96550	1999.5000	825.45000	1.69460	1.24780	1.30790	1.13940	.67840	.65620	.65620
1.194	8.548	-4.95980	2005.8999	831.02000	1.58490	1.22050	1.30020	1.11580	.65960	.63180	.62150
1.198	10.760	-4.95630	1999.5000	826.84000	1.58180	1.21540	1.29880	1.09880	.65710	.62220	.61160
1.197	12.859	-4.94430	1999.5000	828.23000	1.56570	1.19620	1.27560	1.07940	.65040	.61210	.60450
1.198	15.033	-4.95980	1999.5000	828.93000	1.54980	1.16880	1.24910	1.05150	.64720	.62320	.58470
1.198	17.196	-4.95430	1999.5000	830.32000	1.52750	1.14370	1.23390	1.05430	.63700	.59940	.57698
1.195	21.512	-4.95200	2000.8999	836.63000	1.47270	1.08450	1.19140	1.01820	.61900	.57560	.56416
	GRADIENT	-.00048	.19158	-.33049	-.00048	-.00286	.00733	.01219	.00108	.00295	.00194

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(AE7R08) 02 AUG 75

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 47.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0390

PARAMETRIC DATA

BETA = -5.080° ELEVON = .000°
 AILRON = .000° BOFLAP = -7.170°

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
1.298	.095	-4.99240	2002.30000	724.49000	1.73250	1.33510	1.34120	1.11150	.63070	.58750	.60640
1.300	4.252	-4.99850	2005.80000	723.70000	1.73190	1.31990	1.35150	1.07060	.63580	.61120	.60430
1.295	8.517	-4.96060	2005.10001	728.13000	1.71420	1.28680	1.31280	1.05950	.62540	.58710	.57900
1.298	10.667	-4.98030	2005.80000	728.84000	1.70070	1.26240	1.31050	1.05520	.61920	.58660	.58630
1.294	12.821	-4.94320	2005.80000	729.54000	1.68340	1.24060	1.30150	1.04680	.61260	.57840	.54240
1.296	14.993	-4.96260	2005.80000	727.39000	1.67430	1.22270	1.29330	1.03680	.61170	.58410	.51760
1.295	17.156	-4.96900	2005.80000	728.84000	1.64540	1.20230	1.27830	1.03970	.60370	.56760	.50120
1.293	21.480	-4.98790	2005.80000	730.93000	1.59360	1.15410	1.24760	1.03970	.58930	.54460	.58530
	GRADIENT	.00094	.84214	-.18758	-.00014	-.00366	.00248	-.00984	.00123	.00330	-.00051

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PS6/P	PS7/P
1.403	.077	-5.01760	2039.10001	638.39000	1.86980	1.41080	1.34970	1.06180	.60620	.56860	.57390
1.405	4.224	-5.01920	2037.60001	635.20000	1.86390	1.38540	1.35340	1.07210	.60740	.56880	.57160
1.400	8.487	-4.95530	2038.39999	642.61000	1.84340	1.34870	1.35360	1.08110	.60390	.56160	.54940
1.400	10.633	-4.96570	2038.39999	640.61000	1.83360	1.32970	1.34990	1.08310	.59480	.57980	.52390
1.400	12.784	-4.94620	2037.60001	640.62000	1.81640	1.30700	1.34380	1.07470	.58710	.58410	.51380
1.398	14.948	-4.97440	2038.39999	642.08000	1.79360	1.28370	1.33110	1.05766	.58540	.56710	.42940
1.399	17.110	-4.97070	2038.39999	642.08000	1.77140	1.26330	1.32390	1.04970	.58260	.62270	.47800
1.393	21.443	-4.96750	2038.10001	647.23000	1.70890	1.20680	1.29860	1.01630	.57050	.48320	.56240
	GRADIENT	-.08739	-.36171	-.52810	-.00157	-.00371	.00089	-.00248	.00029	.00805	-.00055

(AE7R09) (02 AUG 75)

TABULATED DATA - QA161 (ARC 11-97-87-09+)
ARC 11-97-87-09+ QA161 ORBITER + TUFTS

REFERENCE DATA

SPEF = 2690.0908 SQ.FT. XMRP = 1078.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
ALTRON =

ELEVON =
BEFLAP =

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	RM/L	GRADIENT	INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	.112	-1.88250	2590.70001	2038.39999	4.22	-5.00	1.06440	1.02440	.98900	.96900	.95090	.94620	.95540
.595	4.181	-1.86630	2591.39999	2039.10001			1.06778	1.02710	.98790	.97340	.95130	.94840	.95720
.597	8.344	-1.85240	2607.70001	2049.10001			1.06538	1.02510	.98710	.97590	.94770	.94950	.95950
.597	10.452	-1.84800	2607.70001	2049.79999			1.06190	1.01968	.98699	.97410	.94930	.94930	.95740
.597	12.575	-1.84030	2607.70001	2049.79999			1.05738	1.01260	.98330	.97360	.94700	.94760	.95810
.597	14.677	-1.81490	2607.70001	2049.79999			1.04830	1.00520	.98370	.98110	.94390	.94440	.95440
.597	16.807	-1.87060	2607.70001	2049.79999			1.04010	.99610	.98940	.97360	.94080	.94060	.95000
.595	21.048	-1.86020	2607.70001	2051.89999			1.01570	.97180	.97690	.95710	.94330	.94330	.95000
GRADIENT		.00644	.17201	.17193			.00081	.00066	.00219	.00108	.00010	.00054	.00044

MACH	ALPHA	BETA	PT	RM/L	GRADIENT	INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.795	.083	-1.89080	2226.50000	1466.70000	4.24	-5.00	1.13700	1.05900	.97930	.93650	.90940	.90360	.91880
.797	4.218	-1.87190	2227.89998	1466.00000			1.13860	1.06310	1.00120	.96060	.90840	.90660	.92010
.795	8.431	-1.85700	2229.29999	1459.50000			1.13510	1.05810	1.00600	.97010	.90220	.90450	.91840
.797	10.563	-1.84780	2230.00000	1456.70000			1.12940	1.05260	1.01010	.97270	.90150	.90370	.91860
.798	12.687	-1.84750	2229.29999	1456.70000			1.12370	1.04380	1.01330	.97410	.90040	.90040	.91550
.795	14.894	-1.83770	2229.29999	1458.10001			1.10990	1.02680	1.00510	.96920	.89350	.89390	.90160
.797	16.965	-1.89160	2229.29999	1467.39999			1.09790	1.01340	1.00290	.96920	.88890	.88890	.89850
.795	21.263	-1.87480	2230.00000	1470.99999			1.05620	.97080	.98300	.94450	.86120	.85910	.86410
GRADIENT		.00452	.33873	.16934			.00039	.00089	.00530	.00063	.00063	.00073	.00031

MACH	ALPHA	BETA	PT	RM/L	GRADIENT	INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.848	.076	-1.89440	2176.29999	1359.39999	4.24	-5.00	1.16450	1.07630	.98310	.95180	.92390	.91890	.93710
.849	4.224	-1.86420	2177.70001	1359.70000			1.16700	1.08050	1.00670	.96860	.90290	.89990	.90710
.847	8.442	-1.85920	2177.70001	1354.50001			1.16440	1.07480	1.01710	.98510	.90430	.89950	.90430
.848	10.580	-1.86260	2177.70001	1350.20000			1.15700	1.06870	1.02059	.98410	.88850	.88850	.90090
.849	12.708	-1.84930	2177.70001	1350.89999			1.15138	1.05640	1.02490	.98730	.88360	.88360	.90090
.847	14.821	-1.83720	2177.70001	1361.60001			1.13540	1.04340	1.01930	.98480	.87170	.87170	.88870
.848	16.922	-1.89550	2177.70001	1361.99999			1.12160	1.02500	1.01530	.97850	.85950	.85330	.87110
.848	21.288	-1.87530	2178.39999	1355.90000			1.07830	.98000	.99500	.95920	.83170	.82920	.83280
.845	GRADIENT		.33750	.16974			.00060	.00101	.00569	.00405	.00116	.00096	.00077

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

(AE7R094) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA =
 AIRLOW =

-2.000° ELEVON = .000
 .080 BOELAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
9.00	.087	-1.89340	2095.60001	1239.60001	1.20020	1.09900	.95640	.95640	.87510	.86920	.88550
9.03	4.254	-1.85120	2097.79999	1236.10001	1.24290	1.10920	.97880	.97880	.87870	.87370	.89100
9.00	8.460	-1.84760	2097.79999	1240.30000	1.20050	1.09560	.95560	.95560	.87510	.86920	.89100
9.09	10.596	-1.84620	2097.79999	1241.80000	1.19208	1.09090	.95330	.95330	.87510	.86920	.89100
9.08	12.125	-1.83350	2097.79999	1243.20000	1.18840	1.07750	.94170	.94170	.85800	.85310	.87380
9.09	14.839	-1.84180	2097.79999	1241.00000	1.17020	1.06350	.91400	.91400	.85070	.84580	.86420
9.00	17.022	-1.82560	2097.79999	1239.60001	1.15750	1.04710	.89600	.89600	.83710	.83220	.84860
9.03	21.319	-1.87620	2099.20001	1245.39999	1.10860	.99430	.86780	.86780	.81210	.80720	.82370
9.07	GRADIENT	.01014	.52859	-.84060	.00305	.00245	.00784	.00538	.00089	.00228	.00108

RUN NO. 112/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
9.47	.073	-1.88870	2054.60001	1152.80000	1.24320	1.13240	1.02850	.97180	.84140	.82950	.84660
9.47	4.252	-1.86160	2055.29999	1154.20000	1.24250	1.13440	1.04570	1.00370	.86990	.82410	.84620
9.47	7.556	3.88240	2056.00000	1153.50000	1.20980	1.09040	1.06480	.98970	.78800	.78890	.80320
9.47	10.646	-1.84310	2055.29999	1153.50000	1.23330	1.11870	1.05900	1.03090	.82430	.81920	.84050
9.49	12.784	-1.84600	2056.70001	1152.10001	1.22450	1.10760	1.06840	1.03450	.81140	.80260	.82250
9.47	16.070	4.34410	2056.70001	1154.89999	1.23950	1.12780	1.06420	1.02510	.82740	.81820	.83520
9.45	17.115	-1.91330	2056.00000	1154.60001	1.18960	1.06750	1.05840	1.02190	.77760	.77150	.78090
9.48	21.412	-1.87230	2057.39999	1154.20000	1.14880	1.01880	1.03730	.99400	.74000	.72650	.74340
9.48	GRADIENT	.00505	.16748	.33487	-.00817	.00048	.00603	.00763	-.00275	-.00129	-.00010

RUN NO. 122/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
9.78	.085	-1.88960	2061.70001	1117.10001	1.27800	1.16050	1.04350	.99810	.78670	.77990	.79510
9.79	4.268	-1.86460	2064.50000	1117.80000	1.26880	1.16470	1.07320	1.03190	.78130	.78130	.79570
9.80	8.534	-1.84890	2066.60001	1117.10001	1.27780	1.15740	1.09250	1.05180	.77830	.76890	.78820
9.81	10.682	-1.82560	2065.89999	1115.30000	1.26940	1.14820	1.09520	1.05780	.77530	.76290	.76670
9.82	12.837	-1.83270	2067.39999	1115.60001	1.25970	1.13470	1.09510	1.05950	.76600	.75460	.76570
9.86	14.970	-1.84440	2066.60001	1117.80000	1.24580	1.11450	1.08880	1.05440	.74890	.74070	.75080
9.81	17.181	-1.92340	2066.60001	1117.10001	1.22390	1.09410	1.08290	1.04400	.73390	.72440	.73100
9.75	21.502	-1.88370	2068.79999	1123.50000	1.17190	1.03720	1.05550	1.01980	.71150	.71150	.68640
9.75	GRADIENT	.00998	.56936	.16734	.00067	.00098	.00710	.00808	.00017	.00033	.00110

(AE7R09) (02 AUG 76)

TABULATED DATA - DATE 1 (ARC 11-97-87-094)

ARC 11-97-87-094 OASIS ORBITER + TUFTS

REFERENCE DATA

SREF = 2890.0000 90.00 FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.051	.092	-1.90410	2040.50000	1014.20000	1.37760	1.24790	1.12360	1.07220	.72360	.70410	.71750
1.050	.280	-1.87050	2033.80000	1015.60000	1.37700	1.24980	1.12360	1.07220	.72360	.70410	.71750
1.046	8.556	-1.85150	2042.60000	1021.20000	1.35520	1.23390	1.15610	1.12100	.71750	.70180	.71120
1.048	10.717	-1.83180	2039.90000	1017.70000	1.34850	1.22440	1.16970	1.12880	.70940	.69730	.70400
1.050	12.863	-1.82570	2040.50000	1016.30000	1.34850	1.20950	1.16970	1.13200	.70120	.68720	.69100
1.049	15.017	-1.83260	2041.26000	1017.70000	1.33330	1.18740	1.16150	1.12320	.69590	.67240	.66790
1.053	17.239	-1.81420	2041.89999	1017.00000	1.31020	1.16140	1.15160	1.11300	.67310	.64390	.63990
1.043	21.584	-1.81140	2042.60000	1026.10000	1.24840	1.09480	1.11380	1.06990	.64550	.62960	.59810
1.040	29.791	-1.80950	2044.00000	1029.60000	1.16170	1.08980	1.05320	1.00100	.60620	.57020	.53480
	GRADIENT	.00802	-1.16714	.33430	-.00014	.00057	.00665	.00872	.00826	.00162	.00112

RUN NO. 129/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.098	.083	-1.90410	2011.50000	944.65000	1.43180	1.28840	1.16110	1.09700	.71610	.69860	.70740
1.100	4.280	-1.87710	2010.80000	941.85000	1.43190	1.29000	1.16110	1.09700	.71610	.70290	.70670
1.095	8.533	-1.85940	2012.20000	948.85000	1.41520	1.28470	1.15910	1.14450	.71590	.69630	.69550
1.097	10.715	-1.83930	2012.89999	946.05000	1.40350	1.25250	1.20710	1.16450	.70660	.68390	.68810
1.095	12.868	-1.84350	2012.20000	946.75000	1.39180	1.23470	1.20160	1.16300	.69530	.68080	.67300
1.099	15.033	-1.83100	2012.20000	944.65000	1.37650	1.21680	1.19430	1.15380	.68070	.65550	.65750
1.095	17.250	-1.82310	2011.50000	947.45000	1.35230	1.19460	1.17800	1.13560	.67080	.63750	.62160
1.096	21.582	-1.80180	2015.00000	948.18000	1.29340	1.11880	1.12310	1.04740	.64260	.61750	.58570
	GRADIENT	.00643	-.16580	-.66722	.00002	.00038	.00751	.01134	-.00805	.00102	-.00017

RUN NO. 137/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.149	.080	-1.90860	2001.60000	881.88000	1.48300	1.32160	1.20100	1.12190	.70890	.69050	.69890
1.151	4.258	-1.86400	2006.50000	881.23000	1.47800	1.31310	1.23180	1.16740	.69700	.68020	.68350
1.145	8.543	-1.85250	2005.10000	887.48000	1.45700	1.28390	1.23670	1.18090	.69030	.67320	.67320
1.147	10.708	-1.83170	2005.10000	884.70000	1.45020	1.27480	1.24150	1.19090	.68900	.67250	.67250
1.147	12.868	-1.82780	2005.10000	884.70000	1.43640	1.25780	1.23130	1.19050	.68190	.66460	.65900
1.149	15.024	-1.81730	2005.10000	884.00000	1.42260	1.23390	1.21380	1.13510	.68460	.65410	.63480
1.145	17.239	-1.81920	2004.39999	885.09000	1.39760	1.20720	1.18880	1.11150	.66280	.62720	.61210
1.145	21.570	-1.80550	2007.99999	886.12000	1.34000	1.13810	1.10990	1.06560	.64400	.59320	.57470
	GRADIENT	.01667	1.17253	-.15555	-.00120	-.00203	.00737	.01089	-.00285	-.00246	-.00366

ORIGINAL PAGE IS
OF POOR QUALITY

(AETROB) (02 AUG 76)

PARAMETRIC DATA

BETA =
ALTRON =

-2.00C
.000
BOFLAP =
-7.170

BETA =
ALTRON =

-5.00C
5.00

GRADIENT INTERVAL =

4.25

RM/L =

4.25

GRADIENT INTERVAL =

4.25

GRADIENT INTERVAL =

4.25

REFERENCE DATA

SREF = 2680.000 SO.FT. XREF = 1076.680 IN. YD
LREF = 474.880 IN. YREF = .0000 IN. YD
BREF = 936.680 IN. ZREF = 375.0000 IN. ZD
SCALE = .0300

RUN NO. 1427 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00C 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.195	.078	-1.9090	1995.20000	826.81000	1.52800	1.34400	1.23730	1.13050	.68180	.65020	.66240
1.201	4.257	-1.9070	2003.89999	824.07000	1.52400	1.33920	1.25970	1.17160	.67430	.65500	.65490
1.199	8.539	-1.84370	1999.50000	830.32000	1.50800	1.31400	1.26100	1.16910	.66980	.69190	.64040
1.195	10.702	-1.89980	2003.89999	829.63000	1.49760	1.29720	1.24190	1.14050	.65980	.67740	.62840
1.196	12.857	-1.82940	1998.70000	828.22000	1.48360	1.28140	1.20280	1.13120	.65480	.68430	.62190
1.196	15.014	-1.87210	1999.50000	828.93000	1.46740	1.25610	1.19180	1.12280	.64370	.65270	.59120
1.197	17.227	-1.92100	1999.50000	828.23000	1.44800	1.22760	1.17650	1.11050	.63260	.64170	.58729
1.197	21.554	-1.88230	2006.20000	837.29000	1.38190	1.16730	1.13010	1.07970	.62860	.59510	.54150
GRADIENT		.09577	1.36416	-1.65575	-1.00095	-1.00115	.00536	.00984	-.00779	.00115	-.00179

RUN NO. 1497 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00C 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.299	.062	-1.91460	2001.68001	723.01000	1.64010	1.41490	1.28430	1.15910	.64400	.61250	.61440
1.298	4.227	-1.87610	2005.10001	725.18000	1.63180	1.40430	1.26840	1.13320	.63830	.62470	.60970
1.296	8.505	-1.83020	2005.80000	728.12000	1.61490	1.37140	1.24130	1.12410	.63090	.64260	.59420
1.294	10.674	-1.84360	2005.80000	729.54000	1.60070	1.35160	1.23080	1.11960	.62840	.64440	.57840
1.295	12.819	-1.84330	2005.80000	728.84000	1.59040	1.32980	1.22220	1.11890	.62100	.64320	.55480
1.296	14.968	-1.85510	2005.80000	727.39000	1.57510	1.31090	1.20860	1.11390	.60980	.61990	.53480
1.295	17.182	-1.90790	2005.80000	727.39000	1.55170	1.28640	1.19550	1.10700	.60250	.60250	.51570
1.295	21.527	-1.89660	2006.50000	731.63000	1.48660	1.23590	1.15930	1.07340	.59400	.60230	.48250
GRADIENT		.00924	.84036	.52102	-1.00199	-1.00255	-.00382	-.00622	-.00132	.00293	-.00173

RUN NO. 1527 0 RM/L = 4.20 GRADIENT INTERVAL = -5.00C 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.403	.047	-1.90550	2037.60001	637.68000	1.76230	1.50350	1.26020	1.12800	.61550	.58120	.58060
1.404	4.213	-1.87340	2036.89999	636.96000	1.74740	1.48770	1.27680	1.12960	.61460	.57660	.57440
1.399	8.475	-1.84630	2037.60001	641.35000	1.72180	1.44380	1.26830	1.14120	.61090	.59260	.55320
1.399	10.633	-1.84720	2038.39999	641.35000	1.71250	1.42480	1.26450	1.14450	.59930	.56270	.53410
1.399	12.774	-1.84190	2037.60001	641.35000	1.69990	1.40890	1.25500	1.14150	.59320	.59370	.52130
1.399	14.923	-1.85230	2038.39999	641.35000	1.68510	1.38110	1.24510	1.13540	.58820	.56270	.50220
1.402	17.135	-1.91190	2037.60001	640.63000	1.65490	1.36160	1.23190	1.12980	.58410	.57880	.48940
1.402	21.482	-1.88170	2039.10001	645.75000	1.58740	1.30980	1.20140	1.09710	.57940	.57910	.46490
GRADIENT		.00771	-.16804	-.17283	-.00350	-.00382	.00396	.00030	-.00022	-.00110	-.00149

(AE7R1Q) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
AFLON = .080
ELEVON = .000
BOFLAP = -7.870

TABULATED DATA - 0A161 (ARC 11-97-67-094)

ARC 11-97-67-094 0A161 ORBITER + TUETS

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.8000 IN.
SCALE = .0300

RUN NO. 977 0 RN/L = 4.21 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.995	.098	.15020	2591.39999	2039.10001	1.04980	1.03770	.98140	.97450	.95070	.94630	.95530
.996	2.126	.19990	2592.10001	2039.10001	1.05120	1.04000	.98510	.97850	.95080	.94610	.95530
.996	4.182	.19990	2592.10001	2039.10001	1.05170	1.04240	.98900	.98130	.95160	.94660	.95550
.996	6.250	.21090	2592.89999	2039.80000	1.05190	1.04020	.99070	.98220	.95100	.94790	.95710
.996	8.341	.21520	2593.60001	2039.80000	1.05040	1.03840	.98980	.98340	.95010	.94740	.95480
.996	10.438	.21610	2593.60001	2039.80000	1.04580	1.03330	.98930	.98300	.94990	.94820	.95610
.996	12.529	.21340	2593.60001	2039.80000	1.04330	1.02810	.98850	.98100	.94950	.94970	.95430
.996	14.646	.22300	2593.60001	2039.80000	1.03450	1.02100	.98440	.97380	.94570	.94790	.95250
.996	16.765	.22380	2594.29999	2039.80000	1.02440	1.01170	.98000	.96750	.94260	.94640	.94710
.996	18.882	.22350	2594.29999	2040.50000	1.01240	1.00120	.97410	.96000	.93600	.94420	.93870
.996	20.993	.21450	2594.29999	2042.00000	1.00150	.98830	.96610	.95460	.92950	.95110	.92960
.995	28.179	.21520	2595.00000	2042.00000	.95920	.94862	.94020	.94300	.91160	.92240	.90460
.995	GRADIENT	.08320	.17397	-.00002	.90046	.60115	.00186	.00166	.00022	.00307	.00053

RUN NO. 1027 0 RN/L = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.798	.075	.15030	2198.20001	1445.39999	1.11070	1.08700	.97190	.96590	.91260	.91060	.92270
.799	2.126	.20880	2198.89999	1444.00000	1.10920	1.08900	.97740	.97490	.90550	.90310	.91610
.799	4.243	.20270	2197.50000	1444.70000	1.11340	1.09090	.98600	.97640	.90680	.90690	.91960
.797	6.317	.21180	2197.50000	1446.10000	1.11280	1.08900	.99050	.98680	.90730	.90800	.91970
.797	8.434	.21790	2198.20001	1446.80000	1.10740	1.08380	.99010	.98840	.90310	.90650	.91830
.799	10.548	.21460	2198.20001	1445.39999	1.10400	1.07820	.99210	.98800	.90380	.90510	.91760
.797	12.656	.21040	2198.20001	1446.10000	1.09710	1.06910	.99470	.99490	.90040	.90280	.91340
.797	14.724	.22530	2198.20001	1446.80000	1.08380	1.05950	.99150	.99360	.89130	.89560	.90470
.799	16.925	.22020	2197.50000	1444.00000	1.06850	1.04090	.98470	.98860	.88190	.89720	.88760
.797	19.058	.22760	2198.20001	1446.80000	1.05120	1.02460	.97700	.97900	.87690	.89250	.87870
.798	21.183	.22450	2198.20001	1445.39999	1.03170	1.00490	.96800	.96890	.85890	.87820	.85890
.798	26.337	.22600	2230.70001	1464.50000	.96790	.94250	.93000	.93390	.79680	.87730	.87730
.797	GRADIENT	.01046	-.17039	-.16774	.00066	.06094	.00341	.00253	-.00140	-.00689	-.00063

TABULATED DATA - 0A16A (ARC 11-97-87-09M)

(AE7R101 (02 AUG 78)

ARC 11-97-87-09M 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XGRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YGRP = .0000 IN. YO
BREF = 936.6800 IN. ZGRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 1084 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.848	.044	.17630	2174.89999	1.13240	1.10660	.96600	.96470	.88810	.88890	.80140
.849	2.133	.20790	2175.60001	1.13320	1.11210	.98060	.98190	.89220	.89400	.90830
.849	4.228	.19970	2176.29999	1.13630	1.11378	.99050	.99460	.89420	.89440	.90770
.848	6.330	.23750	2177.00000	1.13610	1.11090	.99430	.99630	.89390	.89390	.90730
.848	8.444	.21970	2177.70001	1.13180	1.10360	.99920	.99760	.89140	.89140	.90430
.847	10.570	.21940	2177.00000	1.12750	1.09770	1.00440	1.00390	.89070	.89070	.90720
.848	12.688	.21300	2177.70001	1.12170	1.08810	1.00470	1.00310	.88320	.88320	.89470
.847	14.821	.22200	2177.70001	1.10550	1.07398	1.00000	1.00350	.86330	.86330	.86080
.848	16.987	.28560	2177.70001	1.09080	1.06050	.98670	.98760	.85190	.85190	.86930
.847	19.103	.21920	2177.70001	1.07990	1.04010	.98760	.98760	.83230	.83230	.83800
.847	21.243	.21660	2177.70001	1.04920	1.01550	.97310	.97590	.75550	.75550	.77360
.845	26.397	.21390	2177.70001	.97690	.94980	.93530	.94440	.00146	.00146	.00150
	GRADIENT	.08936	.33455	.00093	.00170	.00586	.00475			

RUN NO. 1134 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.898	.073	.19930	2104.10001	1.16430	1.13260	.97720	.97130	.87260	.86960	.88460
.903	2.153	.20200	2105.20001	1.17540	1.14320	.99590	.99270	.87900	.87610	.89220
.900	4.293	.20980	2105.50000	1.17410	1.13860	1.00250	.99110	.87450	.87350	.88980
.898	6.354	.21190	2105.50000	1.16630	1.13760	1.01250	1.00080	.88130	.88080	.89220
.898	8.468	.21820	2105.50000	1.16390	1.13250	1.01470	1.01040	.87540	.87560	.89080
.894	10.599	.23390	2105.50000	1.15180	1.11940	1.01680	1.01170	.86750	.86450	.87980
.899	12.725	.23960	2105.50000	1.15110	1.11330	1.02090	1.01920	.85570	.85570	.87130
.898	14.862	.22060	2105.50000	1.13240	1.09770	1.01200	1.01470	.84460	.84460	.84270
.898	17.083	.22060	2105.50000	1.11550	1.08200	1.01200	1.00620	.82340	.81060	.82900
.899	19.145	.22830	2105.50000	1.09540	1.05750	1.00210	1.00620	.79370	.78150	.79780
.898	21.271	.21660	2105.50000	1.07170	1.03290	.98760	.99000	.72460	.71630	.72780
.899	26.462	.21060	2104.79999	1.00580	.97080	.95090	.95940	.00095	.00095	.00124
.902	GRADIENT	.01234	.33361	.00234	.00143	.00602	.00473			

(AETWID) (02 AUG 76 1

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ALFON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 118 0 RVAL = 4.21 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
947	.072	.15080	2073.70001	1164.10001	1.20470	1.15970	1.00130	.98830	.83850	.83140	.84470
946	2.159	.20240	2075.58000	1165.89999	1.20780	1.17300	1.01280	.00960	.83420	.82600	.84080
947	4.268	.20540	2075.79999	1164.80008	1.21320	1.17400	1.02770	1.01650	.83950	.83280	.84640
944	6.383	.21580	2075.79999	1168.70000	1.20210	1.16920	1.03510	1.02310	.84010	.82880	.85030
944	8.520	.22760	2076.50000	1169.00000	1.19860	1.16360	1.04030	1.03620	.83620	.82900	.84040
945	10.660	.22570	2075.10001	1166.20000	1.19470	1.15830	1.04860	1.04420	.82810	.82080	.83530
948	12.786	.21940	2076.50000	1164.80000	1.19080	1.14760	1.04840	1.04560	.81190	.80280	.82320
945	14.937	.21680	2075.79999	1166.89999	1.17060	1.12870	1.04190	1.04470	.79500	.78740	.80280
947	17.087	.20430	2075.79999	1165.50000	1.15450	1.11180	1.03730	1.04080	.78410	.78030	.78950
942	19.245	.20100	2075.79999	1172.50000	1.12620	1.08320	1.02230	1.02210	.76310	.76270	.76520
941	21.355	.21670	2076.50000	1173.20000	1.09990	1.05730	1.00820	1.00920	.74780	.73690	.75430
939	26.554	.20570	2077.29999	1176.70000	1.02270	.98360	.96040	.96910	.68870	.67630	.64860
	GRADIENT	.01299	.49984	.16477	.00203	.00102	.00529	.00571	.00024	.00034	.00041

RUN NO. 123 0 RVAL = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
982	.054	.18010	2065.20001	1114.20090	1.24210	1.20630	1.02720	1.02080	.78990	.78190	.79830
979	2.171	.18210	2061.70001	1115.70000	1.25980	1.20570	1.04020	1.03220	.79180	.78700	.79620
981	4.272	.20400	2065.20001	1114.89999	1.24329	1.20800	1.05420	1.05260	.78570	.78220	.80050
981	6.397	.21670	2065.60001	1116.30000	1.24160	1.20450	1.06510	1.06160	.78369	.77480	.79260
978	8.541	.22430	2065.89999	1119.20000	1.23430	1.19520	1.06610	1.06820	.77700	.76700	.77930
979	10.704	.21780	2065.89999	1118.50000	1.22590	1.17390	1.07010	1.07590	.76980	.75930	.76510
979	12.845	.21910	2065.89999	1117.80000	1.21630	1.16880	1.07050	1.07880	.77070	.75310	.76870
979	14.998	.22760	2065.89999	1118.50000	1.19960	1.15820	1.06300	1.07640	.74240	.73240	.74020
980	17.163	.21930	2065.89999	1116.30000	1.18340	1.13570	1.05910	1.06930	.73940	.72740	.73300
983	19.309	.22250	2068.70000	1114.89999	1.16260	1.11620	1.05630	1.06210	.72200	.70920	.70640
978	21.455	.20700	2067.39999	1119.89999	1.09390	1.09390	1.03010	1.03760	.71650	.70670	.70820
975	25.637	.20850	2065.20001	1123.50000	1.04970	1.06380	.97840	.98890	.64490	.64490	.60820
	GRADIENT	.00568	.00201	.16661	.00026	.00040	.00640	.00754	-.00099	.00007	.00089

ARC 11-97-87-094 0A181 ORBITER + TUFTS

(AETRI01E 1 02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

RUN NO. 128 0 RMKL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.049	.082	.15690	2040.50000	1.33200	1.28860	1.09740	1.09280	.72030	.69840	.71910
1.054	2.171	.19330	2041.20000	1.33790	1.30100	1.12050	1.11330	.72640	.70970	.72320
1.049	4.287	.19680	2041.20000	1.33330	1.29360	1.12610	1.12720	.72660	.71250	.71670
1.050	6.412	.21610	2043.30000	1.32110	1.28910	1.14120	1.13670	.72200	.70770	.71840
1.049	8.565	.21668	2040.50000	1.32560	1.28170	1.14360	1.13700	.72520	.71220	.72640
1.048	10.722	.22270	2041.99999	1.31520	1.25763	1.14570	1.13150	.70650	.69970	.70650
1.049	12.869	.22090	2043.99999	1.30370	1.25163	1.14230	1.12550	.68760	.67760	.68760
1.048	15.039	.22220	2041.20000	1.28830	1.23480	1.13520	1.11920	.68870	.67760	.68760
1.049	17.215	.21950	2041.20000	1.26290	1.20990	1.12440	1.10690	.67420	.66250	.67420
1.046	19.379	.22130	2041.89999	1.23510	1.18169	1.10800	1.12060	.66980	.65960	.66980
1.043	21.531	.20930	2041.89999	1.20280	1.14940	1.08640	1.09920	.61240	.57680	.55970
1.041	26.732	.21260	2043.30000	1.11570	.05440	1.02460	1.03010	.00150	.00335	.00058
GRADIENT		.00947	.16610	.00030	.00118	.00129	.00848			

RUN NO. 133 0 RMKL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.097	.074	.16790	2010.80000	1.38410	1.33540	1.13320	1.12530	.71730	.69980	.71090
1.100	2.162	.19230	2010.80000	1.39130	1.34150	1.15700	1.14840	.72130	.70430	.71410
1.097	4.251	.20960	2011.50000	1.38300	1.33670	1.16660	1.16400	.70290	.68590	.70840
1.098	6.412	.21770	2012.20000	1.38060	1.33210	1.17970	1.17200	.71640	.70230	.70820
1.096	8.568	.22720	2011.50000	1.37230	1.32120	1.18060	1.18250	.70860	.69920	.69550
1.097	10.768	.22130	2012.89999	1.35900	1.30620	1.17920	1.18610	.69540	.68620	.69300
1.097	12.880	.21720	2011.50000	1.34580	1.28960	1.17820	1.19080	.68430	.67100	.67700
1.097	15.060	.22340	2012.89999	1.32640	1.26650	1.16450	1.18150	.67570	.66290	.66930
1.097	17.236	.21250	2012.20000	1.30100	1.23900	1.14800	1.16390	.66870	.65500	.66750
1.099	19.387	.21480	2013.62001	1.27690	1.21360	1.12860	1.13750	.65390	.63940	.65200
1.094	21.589	.20720	2012.89999	1.24150	1.17780	1.10270	1.10940	.61150	.53630	.53240
1.096	26.721	.20810	2015.70002	1.15730	1.09260	1.00480	1.05480	.00073	.00073	.00064
GRADIENT		.00988	.16649	-.08026	.00030	.00791	.00917			

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + TUFTS

(AE7R101 (02 AUG 75)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RUN NO. 1364 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.147	.067	.14780	2001.60001	883.97000	1.43430	1.37510	1.18010	1.14780	.71690	.68100	.70030
1.150	2.150	.20310	2003.70000	880.54000	1.43050	1.37790	1.19450	1.17478	.70600	.68410	.69060
1.153	4.271	.20380	2003.70000	881.20000	1.42530	1.37170	1.20350	1.19340	.68770	.68480	.69480
1.156	6.393	.20360	2003.10001	884.00000	1.41560	1.35840	1.21210	1.20480	.70290	.68590	.69340
1.147	8.551	.20340	2003.80000	885.42000	1.41400	1.35610	1.21650	1.21300	.70120	.68758	.68420
1.147	10.718	.22120	2005.10001	885.42000	1.39310	1.33390	1.21350	1.21270	.69230	.68510	.68420
1.147	12.874	.21780	2005.10001	885.42000	1.38290	1.34450	1.20240	1.21740	.68420	.68880	.68880
1.146	15.036	.22590	2004.39939	884.00000	1.37280	1.30020	1.18940	1.19560	.67180	.64030	.64270
1.148	17.208	.21400	2005.80000	884.70000	1.34670	1.26940	1.13980	1.14880	.65010	.65560	.61510
1.148	19.368	.21970	2005.80000	889.58000	1.31370	1.23270	1.09440	1.11980	.65040	.64660	.53310
1.146	21.543	.20910	2007.20000	887.58000	1.27910	1.20130	1.06970	1.10050	.64650	.60820	.57280
1.145	26.793	.20400	2010.80000	889.63000	1.20160	1.12820	1.06320	1.07200	.60890	.53080	.54100
	GRADIENT	.01257	.49841	-.65604	-.00214	-.00093	.01287	.01287	-.00323	-.00078	-.00430

RUN NO. 1437 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.197	.071	.15820	1997.39800	826.82800	1.46820	1.39900	1.19570	1.15810	.68390	.68920	.68970
1.201	2.150	.19470	2000.20000	824.06000	1.46430	1.40140	1.21200	1.18480	.68590	.68350	.65530
1.199	4.268	.20860	1998.70000	824.75000	1.46200	1.39370	1.22410	1.20260	.68550	.67120	.65170
1.195	6.392	.21920	1999.70000	825.92000	1.45420	1.38670	1.23340	1.20180	.68260	.67300	.65730
1.195	8.558	.22850	2007.20000	828.93000	1.44940	1.37220	1.25590	1.19580	.67670	.66960	.64730
1.195	10.718	.23850	1999.69999	828.93000	1.44010	1.35910	1.21070	1.16910	.67310	.64790	.64730
1.194	12.869	.20490	1999.10001	828.19000	1.42810	1.34530	1.15420	1.14300	.66140	.63860	.62320
1.195	15.039	.20830	1998.00000	828.92000	1.40960	1.32010	1.15160	1.14310	.64450	.60780	.59810
1.195	17.203	.20830	2002.30000	839.34000	1.38150	1.29900	1.12650	1.12990	.62920	.61590	.57370
1.193	19.357	.20860	1999.00000	841.70000	1.35310	1.26560	1.10770	1.12070	.62620	.60790	.56740
1.199	21.498	.19610	1995.20000	825.17000	1.32260	1.23560	1.08400	1.09800	.62150	.59210	.54970
1.187	26.773	.19250	2003.70000	842.82000	1.23080	1.15610	1.01230	1.06400	.59880	.51810	.52040
	GRADIENT	.01200	.53070	-.49407	-.00148	-.00127	.00553	.01065	.00039	.00286	-.00193

TABULATED DATA - 04164 (ARC 11-97-87-094)

ARC 11-97-87-094 04164 ORBITER + TUFFS

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.770

RUN NO. 96/ 0 RNAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.584	.092	2.24710	2590.70001	2040.50000	1.08470	1.05180	.97340	.98130	.95820	.94600	.93370
.595	.193	2.29470	2591.39999	2039.10001	1.03660	1.05700	.98000	.96850	.95330	.94690	.93430
.594	.363	2.30970	2592.10001	2042.00000	1.03350	1.05290	.97860	.96290	.94930	.94690	.93490
.596	.469	2.32010	2592.89999	2039.80000	1.03110	1.05080	.98330	.96090	.94930	.94690	.93500
.595	.622	2.30930	2593.60001	2041.30000	1.02760	1.04290	.98970	.96700	.94760	.94650	.93500
.59E	.785	2.29170	2594.29999	2042.00000	1.01720	1.03550	.97630	.96200	.94570	.94490	.93360
.59E	.896	2.29100	2594.29999	2042.00000	1.00740	1.02560	.96790	.96550	.94280	.94200	.93280
.59E	.896	2.29100	2594.29999	2043.39999	.96430	1.00280	.95480	.96590	.93170	.93080	.92650
.594	.01160	2.27770	2594.29999	2043.39999	.00127	.00127	.00164	.00176	.00062	.00022	.00015

RUN NO. 1034 0 RNAL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.797	.060	2.26270	2227.20001	1456.00000	1.08150	1.11290	.95340	.98070	.95620	.90240	.91530
.799	.231	2.30580	2229.29999	1463.80000	1.08550	1.11980	.97260	.93870	.90780	.90510	.91320
.797	.464	2.31870	2230.70001	1469.70001	1.08860	1.11350	.97550	1.00580	.90120	.90430	.91580
.799	.580	2.32860	2230.70001	1465.30000	1.07560	1.10760	.98300	1.01150	.90330	.90490	.91750
.797	.744	2.31285	2230.70001	1467.39999	1.07310	1.09710	.98600	1.01330	.89930	.90280	.91530
.798	.891	2.32340	2231.39999	1467.39999	1.08290	1.08290	.97240	1.00830	.88950	.88640	.90180
.797	.061	2.33640	2230.70001	1468.10001	1.03740	1.06780	.95490	1.00330	.87310	.86940	.88850
.797	.293	2.31750	2231.39999	1473.10001	.99950	1.02970	.94570	.98550	.85440	.85440	.86640
.794	.01129	2.31750	2231.39999	1473.10001	.00096	.00096	.00460	.00432	.00038	.00113	.00064

RUN NO. 107/ 0 RNAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.843	.043	2.26440	2174.89999	1357.30000	1.10260	1.13810	.95270	.98480	.95230	.89830	.90230
.848	.243	2.30530	2175.60001	1358.70000	1.10470	1.14360	.97380	1.00170	.88240	.89460	.90680
.847	.477	2.31200	2177.00000	1360.89999	1.10290	1.13770	.98680	1.02030	.88410	.89400	.90700
.847	.598	2.31800	2177.00000	1360.89999	1.09410	1.12960	.98260	1.02110	.88530	.89700	.90480
.846	.762	2.31500	2177.00000	1363.00000	1.09100	1.11940	.98710	1.02120	.88300	.89300	.90370
.846	.935	2.32240	2177.00000	1363.00000	1.07260	1.10440	.98260	1.02120	.86600	.86550	.88340
.847	.084	2.33240	2177.00000	1363.00000	1.07260	1.09900	.98260	1.01650	.85720	.85680	.86580
.847	.235	2.33130	2177.00000	1362.30000	1.05600	1.09900	.97530	1.01650	.83250	.83330	.84830
.845	.335	2.30810	2177.00001	1365.10001	1.01351	1.04870	.95361	.99560	.83250	.83330	.84830
		.00498	.16672	.33343	.08090	.00129	.00503	.00402	.00152	.00152	.00107

ORIGINAL PAGE IS
OF POOR QUALITY

(AE7R11) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALLRON = .000 BDFLAP = -2.170

TABULATED DATA - OA151 (ARC 11-97-87-034)

ARC 11-97-87-09+ OA161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 127+ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.00+ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.051	.073	2.25120	2041.89999	1014.90000	1.29500	1.33890	1.03120	1.12090	.73030	.71260	.73150
1.052	4.295	2.32070	2042.50000	1012.80000	1.29420	1.34410	1.11210	1.15690	.72890	.71360	.72570
1.047	8.590	2.31650	2038.10001	1019.10000	1.28010	1.32430	1.12160	1.16650	.71990	.70480	.71810
1.048	10.751	2.31570	2044.00000	1020.50000	1.26880	1.31490	1.12490	1.17460	.69130	.67430	.70470
1.049	12.921	2.29260	2041.20000	1017.00000	1.26120	1.29890	1.12010	1.17850	.67830	.65580	.69470
1.047	19.098	2.33630	2041.20000	1019.80000	1.23650	1.27570	1.10940	1.17100	.68790	.65580	.65550
1.049	17.330	2.33830	2041.20000	1017.00000	1.21760	1.25670	1.10090	1.16480	.68390	.65440	.67070
1.049	21.626	2.32360	2041.89999	1030.30000	1.19120	1.19060	1.05530	1.11830	.66840	.64350	.67070
1.039	GRADIENT	.01030	-.33163	-.43741	-.00019	.00425	.00732	.00831	-.08033	.08024	-.00137

RUN NO. 139+ 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00+ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.097	.075	2.26190	2005.10001	941.10000	1.34070	1.39070	1.12200	1.15930	.70770	.68500	.69930
1.100	4.299	2.30110	2003.70000	938.20000	1.34050	1.39290	1.15190	1.20100	.69520	.66520	.68500
1.097	8.588	2.31760	2005.80000	943.20000	1.32740	1.37300	1.16960	1.21010	.67330	.64520	.67660
1.099	10.744	2.31590	2005.10001	941.80000	1.31140	1.35880	1.16450	1.22180	.65110	.62260	.67800
1.096	12.916	2.30300	2005.80000	944.60000	1.29780	1.33830	1.15370	1.21630	.63740	.60710	.66380
1.097	15.105	2.27280	2000.20000	940.35000	1.27390	1.31700	1.13960	1.20770	.62740	.59390	.65729
1.097	17.337	2.25400	2007.88983	942.52000	1.26459	1.30280	1.13260	1.19870	.62870	.59390	.63459
1.097	GRADIENT	2.35510	2005.80000	942.50000	1.25050	1.29100	1.12290	1.19280	.62830	.59390	.62550
1.097		2.35180	2008.60031	944.62000	1.19110	1.23090	1.05330	1.11220	.56370	.53500	.59500
1.097		.00928	-.33144	-.66529	-.00805	.00052	.00708	.00987	-.00059	.00005	-.00149

RUN NO. 134+ 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00+ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.150	.067	2.27150	2003.00000	880.50000	1.38060	1.43140	1.15340	1.18080	.78730	.68300	.69430
1.149	4.282	2.32880	2000.89999	881.18000	1.37620	1.42970	1.17980	1.22980	.70630	.68670	.69100
1.147	8.584	2.32440	2005.50000	886.10000	1.35810	1.40580	1.19070	1.23780	.69440	.66440	.67690
1.147	10.742	2.31840	2003.00000	883.98000	1.34920	1.39500	1.19290	1.24850	.68780	.65380	.66940
1.145	12.921	2.30450	2001.60001	886.05000	1.33278	1.37190	1.18140	1.24050	.67400	.64900	.65940
1.145	15.107	2.27430	2007.89999	888.90000	1.31130	1.35080	1.16440	1.20830	.66190	.62140	.63210
1.145	17.328	2.25560	2003.10001	885.40000	1.29580	1.32980	1.14450	1.19500	.65620	.61040	.61590
1.145	GRADIENT	2.32500	2003.70000	879.81000	1.23820	1.27350	1.03590	1.12920	.56560	.53610	.60150
1.145		.01357	-.49927	.16135	-.00104	-.00840	.00626	.01153	-.00024	.00088	-.00078

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFES

(AE7R11) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6900 IN. ZMRP = 375.0800 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 ATERON = .000 BOFLAP = -7.170

RUN NO. 144/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.194	.061	2.28330	1987.30000	829.61000	1.41470	1.46300	1.16800	1.21040	.68310	.63860	.65780
1.200	4.278	2.31140	1999.07000	824.05000	1.40940	1.45730	1.28210	1.24410	.68180	.66270	.65390
1.193	8.580	2.31470	1995.10001	829.58000	1.39150	1.43280	1.20400	1.24380	.67480	.65030	.64620
1.194	10.745	2.31640	1993.80000	828.89000	1.36110	1.42280	1.17460	1.23300	.66940	.64510	.64180
1.193	12.920	2.30170	1999.50000	832.41000	1.37100	1.40550	1.12700	1.21170	.66290	.64130	.62280
1.195	15.100	2.33400	1989.00000	828.22000	1.35260	1.38440	1.10670	1.20460	.65340	.63410	.61360
1.193	17.312	2.32390	1995.89999	830.50000	1.31920	1.35510	1.08290	1.19100	.63210	.61050	.57650
1.195	21.535	2.31930	2000.20000	829.63000	1.26420	1.29650	1.03300	1.15490	.62790	.59900	.55560
GRADIENT	.00565	.16600	.00111	-1.31844	.00135	.00803	.00799	.00330	.00097	.00033	.00000

RUN NO. 147/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.293	.030	2.27130	2001.60001	723.75000	1.51050	1.55250	1.21640	1.23780	.64550	.61130	.64250
1.299	4.250	2.35180	2005.10001	725.18000	1.49340	1.53750	1.16750	1.22920	.64860	.62310	.61400
1.297	8.546	2.32840	2005.10001	726.66000	1.48060	1.51510	1.15380	1.22120	.64420	.62490	.60640
1.295	10.745	2.31850	2005.80000	728.84000	1.46550	1.49570	1.14310	1.21710	.64170	.61820	.59600
1.292	12.894	2.29320	2005.80000	731.63000	1.45100	1.47330	1.12740	1.21490	.63260	.61550	.59150
1.296	15.055	2.33750	2005.80000	728.12000	1.43600	1.45700	1.11760	1.22180	.62120	.59420	.56790
1.295	17.275	2.34300	2005.10001	728.13000	1.40970	1.43450	1.09290	1.21370	.61050	.57780	.53100
1.292	21.567	2.32760	2007.89999	732.34000	1.34340	1.37880	1.03860	1.18960	.59710	.50070	.50460
GRADIENT	.01433	.88924	.00408	.33880	.00355	.00159	.00204	.00256	.00073	.00000	.00000

RUN NO. 154/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.399	.021	2.28230	2056.70001	646.89000	1.61860	1.63910	1.15370	1.21640	.61846	.57750	.61380
1.400	4.231	2.30480	2057.39999	646.89000	1.58780	1.63250	1.17710	1.23080	.62600	.57730	.60840
1.396	8.524	2.31710	2056.70001	649.84000	1.57220	1.60110	1.17430	1.24370	.62270	.59780	.57340
1.395	10.679	2.33440	2057.39999	649.83000	1.55840	1.58100	1.16140	1.24730	.61460	.59390	.55660
1.395	12.865	2.30730	2058.20001	650.55000	1.54900	1.55910	1.15030	1.24930	.60160	.58440	.53720
1.397	15.021	2.35510	2058.20001	649.81000	1.53000	1.53740	1.12900	1.25490	.60040	.55440	.52460
1.399	17.244	2.34220	2057.39999	649.35000	1.49960	1.51490	1.10720	1.25750	.58320	.54110	.51430
1.395	21.535	2.33320	2059.60001	651.26000	1.43900	1.46590	1.06400	1.22140	.56530	.47950	.48520
GRADIENT	.00536	.16663	.00488	.00238	.00162	.00557	.00343	.00000	.00000	.00000	.00000

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + IUFTS

(AE7R12) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 5.080 ELEVON = .000
ATLRON = .000 BOFLAP = -7.170

RUN NO. 95/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.101	5.34530	2592.89999	1.01330	1.07640	.96590	.99630	.95080	.94310	.95190
.596	4.223	5.37960	2592.89999	1.01530	1.07980	.97060	1.00440	.94670	.94280	.95240
.595	8.397	5.38640	2592.89999	1.01210	1.07640	.97030	1.00710	.94700	.94320	.95120
.594	10.516	5.37880	2592.89999	1.00770	1.07140	.96930	1.00570	.94730	.94490	.95320
.595	12.627	5.39210	2593.60001	1.00720	1.06650	.96510	1.00580	.94680	.94350	.95400
.595	14.755	5.37890	2594.29999	.99540	1.06050	.96040	.99880	.94200	.93780	.94980
.595	16.857	5.37870	2593.60001	.98440	1.04980	.95550	.99510	.94150	.93240	.94600
.595	21.070	5.38640	2593.60001	.96320	1.02740	.94000	.98170	.93210	.92100	.93590
GRADIENT		.00832	.00001	.00049	.00082	.00136	.00197	.00081	.00007	.00012

RUN NO. 104/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.756	.085	5.35680	2227.89999	1.04210	1.15440	.93390	1.00320	.90410	.89370	.91030
.756	4.252	5.39470	2229.29999	1.04650	1.16220	.95290	1.02310	.90380	.90070	.91450
.756	8.489	5.40380	2230.70001	1.03980	1.15340	.95600	1.03090	.90220	.89890	.91420
.756	10.625	5.39560	2231.39999	1.03580	1.14920	.95760	1.03440	.90120	.89940	.91140
.756	12.752	5.39520	2230.70001	1.03250	1.13980	.95420	1.03720	.89520	.89110	.90630
.756	14.882	5.40140	2231.39999	1.01280	1.12530	.95010	1.03710	.88770	.88130	.90290
.756	17.016	5.42210	2230.70001	1.00180	1.11710	.94630	1.03630	.88340	.87550	.89470
.756	21.273	5.44740	2231.39999	.95930	1.07750	.92090	1.02060	.86680	.85910	.88490
GRADIENT		.06909	.33692	.06106	.00187	.00456	.00477	.00007	.08166	.00101

RUN NO. 106/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.797	.093	5.37330	2228.60001	1.04160	1.15510	.93380	1.00350	.90260	.89320	.90870
.799	4.268	5.40070	2178.39999	1.06030	1.19430	.95150	1.03160	.88860	.88320	.89780
.851	8.508	5.40740	2178.39999	1.05820	1.18650	.96350	1.04800	.88930	.88300	.89710
.844	10.637	5.40090	2177.00001	1.04880	1.17090	.96070	1.04730	.88190	.88020	.89420
.849	12.771	5.40120	2177.70001	1.04780	1.17630	.96400	1.05350	.88210	.87770	.89280
.847	14.904	5.40160	2177.70001	1.02970	1.15550	.95960	1.05370	.87300	.86220	.88030
.849	17.042	5.42660	2177.70001	1.01310	1.14130	.95390	1.05250	.86520	.85720	.88040
.849	21.305	5.45100	2177.70001	.96140	1.09568	.92170	1.03220	.83800	.82850	.85810
GRADIENT		.00656	.1193522	.00447	.00865	.00423	.00671	.00335	.00239	.00280

(AE7R12) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + TUFIS

REFERENCE DATA

SPEF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
ALTRON =

ELEVON = .000
BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 126/ 0 RW/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.064	.094	5.38210	2042.60000	1016.30000	1.22610	1.40400	1.05170	1.15450	.71829	.69010	.71110
1.049	4.321	5.41230	2039.80000	1016.30000	1.22570	1.40570	1.08040	1.16700	.72890	.70700	.72280
1.043	8.613	5.41100	2044.00000	1023.30000	1.21360	1.38690	1.08950	1.19810	.71050	.68540	.70890
1.050	10.785	5.39310	2040.50000	1013.60000	1.21000	1.38460	1.09400	1.21470	.70750	.68360	.70530
1.046	12.934	5.38760	2042.60000	1021.90000	1.19390	1.36610	1.08500	1.21370	.70620	.67850	.70100
1.052	15.095	5.41400	2041.20000	1014.20000	1.17700	1.35180	1.08140	1.21670	.70210	.67330	.69810
1.049	17.258	5.44810	2040.50000	1017.70000	1.15190	1.32920	1.05430	1.20850	.69789	.65710	.67170
1.041	21.581	5.47040	2044.70000	1029.60000	1.08470	1.26810	1.02010	1.16720	.65709	.65010	.62510
GRADIENT		.00714	-.66241	-.00001	-.00005	.00840	.00673	.00769	.00111	.00400	.00277

RUN NO. 140/ 0 RW/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.100	.086	5.36520	2005.10000	939.00000	1.26760	1.46310	1.08570	1.19780	.70350	.67990	.69940
1.100	4.324	5.39960	2004.39999	939.30000	1.26350	1.46360	1.11230	1.23180	.70340	.69330	.69600
1.097	8.608	5.40440	2004.39999	942.40000	1.25050	1.44480	1.12690	1.24680	.69260	.66920	.67990
1.103	10.785	5.38920	2005.80000	956.23000	1.24460	1.43740	1.13310	1.26210	.69530	.66880	.68590
1.096	15.088	5.41000	2005.80000	943.90000	1.20350	1.39190	1.10910	1.25150	.69540	.66070	.67750
1.098	17.255	5.44030	2004.39999	941.09000	1.17820	1.37250	1.09160	1.24070	.69150	.64630	.66220
1.094	21.589	5.46460	2008.60000	948.13000	1.11280	1.31170	1.00710	1.18570	.65480	.63450	.61180
GRADIENT		.00788	-.16616	-.16515	-.08094	-.00002	.00628	.00802	-.00005	.00083	-.00057

RUN NO. 135/ 0 RW/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.151	.083	5.37110	2004.39999	880.51000	1.31060	1.51830	1.11590	1.23470	.69920	.67800	.69950
1.150	4.309	5.43180	2003.70000	881.20000	1.30280	1.51470	1.15220	1.27280	.70240	.68260	.69430
1.145	8.614	5.40480	2005.50000	883.19000	1.28090	1.48300	1.15450	1.27580	.67640	.64170	.66240
1.146	10.783	5.39340	2004.39999	896.09000	1.27520	1.47490	1.16780	1.28810	.67310	.64510	.66290
1.145	12.933	5.40450	2004.39999	897.48000	1.26400	1.45300	1.16440	1.28350	.67870	.64260	.66240
1.147	15.096	5.42050	2005.10000	885.40000	1.24340	1.44260	1.14170	1.27020	.68520	.64160	.66510
1.146	17.260	5.44930	2005.80000	884.70000	1.21730	1.41690	1.13890	1.24680	.67790	.62760	.64530
1.144	21.579	5.47050	2010.10000	891.01000	1.15040	1.38890	.96710	1.18940	.64580	.56760	.58640
GRADIENT		.01436	-.15562	.16325	-.00185	-.00085	.00880	.00901	.00076	.00298	.00414

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XQ
 LREF = 476.8000 IN. YMRP = .0000 IN. YQ
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .020
 AILRON = .000 BDFLAP = -7.170

RUN NO. 145/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.082	5.38620	1996.60001	824.04000	1.34290	1.55720	1.14030	1.27210	.67830	.65260	.66900
1.195	4.296	5.40700	1997.30000	824.74000	1.32710	1.54910	1.16410	1.29930	.67690	.64930	.66800
1.196	8.601	5.41450	1999.50000	828.93000	1.30990	1.52560	1.16050	1.29690	.66570	.63130	.64380
1.196	10.779	5.39780	1998.70000	828.92000	1.30280	1.51350	1.10050	1.27990	.66120	.62430	.63290
1.195	12.927	5.40410	1998.00000	828.92000	1.30000	1.50000	1.06760	1.27310	.66290	.61940	.63460
1.194	15.089	5.42020	1998.70000	831.01000	1.28400	1.47420	1.04310	1.26290	.65590	.60280	.61910
1.196	17.248	5.43690	1998.70000	828.22000	1.23920	1.45590	1.02720	1.25270	.64530	.58430	.60230
1.194	21.557	5.45950	2000.83399	831.02000	1.17820	1.40150	.97950	1.22470	.63320	.56120	.58720
	GRADIENT	.00494	.16613	.16612	-.00375	-.00192	.00565	.00645	-.00033	-.00078	-.00024

RUN NO. 146/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.299	.068	5.37810	2005.10001	725.18000	1.42680	1.65310	1.16570	1.30780	.63430	.59540	.61580
1.297	4.276	5.42840	2005.80000	728.65000	1.40530	1.64450	1.10300	1.30270	.63610	.59870	.62000
1.295	8.570	5.41430	2004.39999	728.13000	1.39150	1.62500	1.09540	1.30180	.63200	.58250	.60230
1.291	10.747	5.41160	2008.10001	733.01000	1.37130	1.60230	1.07760	1.29990	.62540	.56970	.58240
1.293	12.897	5.39810	2005.10001	730.23000	1.37480	1.58740	1.06350	1.30910	.63120	.56780	.57830
1.295	15.051	5.41970	2005.10001	728.13000	1.34430	1.56680	1.04290	1.30830	.62180	.54680	.56930
1.298	17.211	5.44150	2005.10001	725.92000	1.32170	1.55260	1.02920	1.31440	.61950	.53190	.55180
1.292	21.525	5.46320	2006.50000	732.33000	1.25840	1.49700	.96610	1.30140	.61790	.53450	.53620
	GRADIENT	.01195	.16637	.34936	-.00487	-.00264	-.01490	-.00121	.00043	.00078	.00100

RUN NO. 155/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.393	.051	5.41000	2056.70001	647.63000	1.52450	1.76610	1.10050	1.31140	.60990	.56540	.58690
1.402	4.259	5.46710	2056.70001	647.68000	1.50430	1.76180	1.11570	1.31990	.61210	.56620	.60180
1.397	8.545	5.42220	2057.39999	649.09000	1.48130	1.73190	1.10660	1.33950	.61190	.55820	.58220
1.396	10.715	5.39750	2057.39999	649.83000	1.46460	1.71010	1.09100	1.33950	.60830	.56910	.59330
1.396	12.856	5.42210	2057.39999	649.83000	1.45420	1.68680	1.07610	1.34130	.60970	.56480	.59370
1.395	15.013	5.43230	2058.20001	647.60000	1.43360	1.67370	1.06030	1.35200	.60440	.51180	.53330
1.396	17.178	5.46230	2057.39999	650.56000	1.39120	1.64690	1.03460	1.35700	.59910	.49930	.52520
1.393	21.492	5.46730	2060.29999	648.30000	1.33940	1.59930	.98400	1.34620	.60080	.56900	.49410
	GRADIENT	.01357	.30001	-.70116	-.00480	-.00102	.00361	.00202	.00032	.00035	.00371

(AE7R13) (02 AUG 75)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AFLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A16J (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A16J ORBITER

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 29/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	1.136	-4.94520	2582.89999	2037.70000	1.08250	.99680	1.00198	.95800	.95090	.94300	.93250
.598	2.166	-4.94550	2583.00000	2037.00000	1.08650	.99850	1.00710	.96140	.95040	.94520	.93450
.598	4.211	-4.94220	2595.00000	2037.70000	1.08768	.99890	1.01080	.96408	.94970	.94450	.93330
.597	6.283	-4.93490	2595.00000	2038.39999	1.08700	.99770	1.01240	.96468	.94850	.94370	.93500
.598	8.371	-4.92270	2595.00000	2037.70000	1.08610	.99620	1.01358	.96400	.94820	.94500	.93480
.597	10.476	-4.91140	2595.00000	2038.10001	1.08400	.99560	1.01380	.96270	.94790	.94650	.93630
.597	12.586	-4.89440	2595.00000	2038.39999	1.08100	.99440	1.01200	.96180	.94760	.94820	.93850
.597	14.697	-4.87630	2595.00000	2039.10001	1.07690	.99340	1.00900	.95740	.94420	.94520	.93650
.597	16.788	-4.86170	2595.00000	2039.80000	1.07580	.99240	1.00600	.95530	.94280	.94300	.93450
.598	18.968	-4.84890	2595.00000	2037.70000	1.07400	.99100	1.00280	.95300	.94020	.93640	.9279
.597	21.014	-4.83800	2595.00000	2038.80000	1.07300	.98980	1.00000	.95100	.93830	.93000	.92560
.597	23.115	-4.82810	2595.00000	2040.50000	1.07100	.98840	.99820	.94840	.93570	.92720	.92300
.595	25.199	-4.81860	2595.00000	2041.30000	1.06950	.98670	.99620	.94640	.93360	.92500	.92100
.598	26.192	-4.80950	2595.00000	2043.39999	1.06780	.98490	.99350	.94410	.93120	.92250	.91800
GRADIENT		.00073	.51476	.00044	.00129	.00071	.00113	.00147	.00015	.00037	.00020

RUN NO. 34/ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.698	1.128	-4.94620	2378.50000	1717.89999	1.11570	.99780	1.00260	.93980	.93040	.92330	.91200
.699	2.166	-4.93310	2378.50000	1719.80000	1.12470	1.00030	1.01080	.94510	.93120	.92460	.91310
.699	4.225	-4.92210	2378.50000	1717.20000	1.12470	1.00190	1.01440	.94930	.93100	.92510	.91310
.699	6.315	-4.91530	2378.50000	1716.50000	1.12500	1.00120	1.02020	.94970	.93000	.92540	.91310
.698	8.418	-4.90830	2379.29999	1717.89999	1.12190	.99880	1.02230	.94950	.92950	.92560	.91310
.698	10.537	-4.90250	2380.00000	1719.30000	1.11790	.99140	1.02180	.94920	.92940	.92540	.91310
.697	12.654	-4.89170	2380.00000	1720.00000	1.11040	.98570	1.02030	.94910	.92930	.92540	.91310
.699	14.768	-4.88970	2380.00000	1719.30000	1.10000	.97280	1.01760	.94570	.92500	.92240	.91310
.697	16.874	-4.87450	2380.00000	1720.80000	1.08890	.96880	1.01100	.93700	.92350	.92250	.91310
.697	18.016	-4.86410	2380.00000	1720.00000	1.07950	.96450	1.00750	.93210	.92300	.92250	.91310
.699	21.142	-4.85470	2380.00000	1717.20000	1.07500	.96000	1.00100	.92340	.92340	.92250	.91310
.699	23.251	-4.84740	2380.00000	1719.30000	1.07400	.95740	.99900	.92340	.92340	.92250	.91310
.698	25.362	-4.83940	2380.00000	1719.30000	1.07200	.95620	.99830	.92340	.92340	.92250	.91310
.697	26.262	-4.83200	2380.00000	1720.80000	1.07100	.95500	.99720	.92340	.92340	.92250	.91310
GRADIENT		.00145	.00000	.16937	.00129	.00100	.00283	.00232	.00015	.00044	.00022

(AETRI3) (02 AUG 78)

ARC 11-97-87-094 QAL6L ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RUN NO. 437 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.800	.107	-4.95160	2208.10001	1449.08000	1.16930	1.00680	1.00740	.91090	.90240	.89880	.91070
.799	2.168	-4.95140	2208.10001	1450.39999	1.01110	1.01110	1.01580	.96670	.90330	.90020	.91320
.798	4.236	-4.95370	2208.10001	1451.80000	1.17358	1.01130	1.02540	.93550	.90400	.90080	.91280
.796	6.341	-4.95300	2208.10001	1451.80000	1.17440	1.00820	1.03160	.93920	.90150	.90080	.91510
.797	8.452	-4.95300	2207.99999	1451.80000	1.17170	1.00610	1.03290	.94330	.90450	.90340	.92010
.797	10.572	-4.95260	2208.10001	1453.20000	1.16460	.99780	1.03390	.94200	.89990	.90580	.91430
.796	12.681	-4.95140	2208.10001	1451.80000	1.15640	.99950	1.03690	.94290	.89930	.90450	.91430
.798	14.815	-4.92110	2207.99999	1450.39999	1.14530	.97570	1.03560	.94000	.89958	.90440	.91430
.797	16.931	-4.91810	2208.10001	1453.20000	1.12990	.96140	1.03120	.93440	.88490	.90520	.91320
.797	19.085	-4.92250	2208.10001	1453.20000	1.11280	.94100	1.02450	.92540	.87750	.90440	.91320
.797	21.213	-4.94930	2208.10001	1453.20000	1.09060	.91850	1.01910	.91710	.86910	.90440	.91320
.795	23.309	-4.93910	2208.10001	1454.60001	1.06670	.89470	1.00280	.90260	.86020	.89990	.91470
.796	25.344	-4.90820	2208.10001	1453.89999	1.04370	.86970	.98720	.88810	.82730	.86230	.91470
GRADIENT		-.00351	.00000	.67790	.00102	.00109	.00435	.00378	.00039	.00048	.00051

RUN NO. 447 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.851	.113	-4.97310	2160.00000	1345.89999	1.20200	1.01430	1.01130	.90670	.88490	.88460	.89350
.848	2.174	-4.95540	2154.29999	1346.00000	1.02120	1.02120	1.02390	.95430	.89100	.88660	.90370
.847	4.257	-4.94430	2157.20001	1349.50000	1.20350	1.02100	1.03270	.93190	.89150	.88770	.90320
.846	6.457	-4.93570	2157.89999	1348.80000	1.20240	1.01420	1.04490	.94390	.88970	.89100	.91640
.847	10.593	-4.92170	2157.89999	1350.20000	1.19560	1.00820	1.04760	.94450	.88270	.88480	.91350
.848	12.714	-4.95520	2157.89999	1348.80000	1.18660	.99650	1.05080	.94510	.87820	.87810	.92350
.848	13.868	-4.94600	2157.20001	1347.99999	1.20570	1.01510	1.04350	.94130	.88960	.88980	.92350
.845	14.834	-4.91360	2155.79999	1351.00000	1.17190	.98010	1.04650	.94300	.86640	.86640	.92350
.845	16.963	-4.93580	2157.89999	1350.89999	1.15690	.96530	1.04450	.93470	.86020	.85910	.92350
.846	19.122	-4.94950	2157.20001	1348.80000	1.13970	.94180	1.03780	.92760	.83440	.83250	.92350
.846	21.245	-4.94760	2157.20001	1350.89999	1.11580	.91880	1.02940	.91520	.83840	.83750	.92350
.845	23.337	-4.94550	2156.50000	1351.70000	1.09220	.89250	1.01370	.90210	.81280	.81130	.92350
.846	25.393	-4.90760	2157.20001	1350.20000	1.06490	.86280	.99980	.88900	.78690	.78810	.92350
.846	25.405	-4.88930	2156.50000	1347.99999	1.05140	.84730	.99150	.87890	.77490	.77490	.92350
GRADIENT		.00363	-.67195	.87028	.00036	.00161	.00516	.00560	.00159	.00069	.00151

(AETR131 (02 AUG 75

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AHLRON = .000 BDFLAP = -7.170

TABULATED DATA - OAINS (ARC 11-97-97-C9#)

ARC 11-97-97-99# OAINS OMBLIER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8080 IN. YMRP = 375.0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 54/ 0 RNAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS7/P
903	1.105	-4.97020	2127.50800	1254.50000	1.24220	1.03260	1.02770	.91280	.86470	.87450
904	2.182	-4.98070	2125.79999	1256.60000	1.24440	1.03920	1.03690	.92608	.86460	.87650
905	4.264	-4.97120	2127.50000	1258.00000	1.24570	1.03590	1.05130	.93930	.86690	.88120
906	6.373	-4.95370	2128.20000	1257.30000	1.24800	1.03330	1.05000	.94530	.86810	.88560
907	8.485	-4.94660	2127.50000	1253.50000	1.24210	1.03050	1.06350	.95470	.87340	.89150
908	10.617	-4.94010	2128.20000	1258.78000	1.23500	1.02620	1.06900	.95560	.86120	.89090
909	12.742	-4.92690	2127.50000	1257.30000	1.23020	1.01470	1.07680	.95930	.86470	.87470
910	14.881	-4.93580	2128.20000	1259.70000	1.21310	.97768	1.07250	.95440	.84740	.86480
911	17.012	-4.93800	2127.50000	1259.70000	1.19670	.97768	1.06790	.95440	.83740	.85290
912	19.173	-4.96960	2127.50000	1261.60000	1.17360	.95240	1.05900	.93690	.81900	.83450
913	21.302	-4.96520	2128.20000	1260.20000	1.15206	.96820	1.04950	.92700	.79770	.81690
914	23.415	-4.95870	2125.79999	1257.30000	1.13060	.90160	1.03790	.91460	.75740	.77490
915	25.486	-4.92540	2128.20000	1263.10000	1.09550	.89860	1.01640	.89130	.73210	.75670
916	26.494	-4.87940	2127.50000	1258.70000	1.08370	.84770	1.01310	.89530	.73160	.71750
917	GRADIENT	-.00024	.00011	.84162	.00084	.00103	.00568	.06530	.00053	.00181

RUN NO. 55/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS7/P
918	1.119	-4.96798	2085.39999	1169.10000	1.28790	1.05730	1.05110	.92770	.81270	.82510
919	2.197	-4.96230	2084.29999	1167.00000	1.29150	1.06400	1.05790	.94320	.82390	.82400
920	4.294	-4.95550	2085.00000	1167.00000	1.29500	1.05770	1.08290	.95600	.82590	.83830
921	6.410	-4.95140	2085.70000	1168.30000	1.29280	1.05960	1.09070	.96510	.82350	.83750
922	8.531	-4.94470	2085.00000	1169.80000	1.28940	1.05250	1.09150	.97080	.82020	.83610
923	10.663	-4.94040	2085.70000	1169.80000	1.28230	1.04360	1.09590	.97370	.81880	.82830
924	12.822	-4.93170	2085.00000	1171.20000	1.27120	1.03250	1.10240	.97460	.81200	.82220
925	14.945	-4.94660	2085.00000	1170.50000	1.25470	1.01400	1.09950	.97150	.79590	.81850
926	17.098	-4.95910	2085.70000	1170.50000	1.23480	.99380	1.09650	.95390	.78300	.78830
927	19.270	-4.94660	2085.00000	1169.80000	1.21500	.96970	1.08730	.95390	.75340	.76400
928	21.325	-4.95440	2084.29999	1171.20000	1.19080	.94050	1.07520	.94090	.72640	.73420
929	23.487	-4.94980	2085.70000	1172.60000	1.16250	.90780	1.05780	.91980	.69760	.68450
930	25.558	-4.92320	2085.00000	1173.30000	1.13290	.87300	1.04160	.92330	.67670	.67720
931	26.553	-4.91010	2085.70000	1169.80000	1.12210	.85830	1.03830	.89170	.68160	.64780
932	GRADIENT	.00225	-.33441	-.50232	.00170	.00249	.00762	.00676	.00316	.00316

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TABULATED DATA - 0A151 (ARC 11-97-87-094)

ARC 11-97-87-094 0A151 ORBITER

(AETM13) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SO.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0306

PARAMETRIC DATA

BETA =
ALTRON =
-5.000 ELEVON = .000
.006 BDFLAP = -7.170

RUN NO. 547 0 RMYL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.981	.113	-4.9690	2075.7999	1.32780	1.08870	1.08030	.94960	.78250	.77310	.76790
.979	2.204	-4.95170	2074.3999	1.32680	1.08840	1.09410	.95430	.78290	.77520	.78290
.980	4.303	-4.96110	2075.1000	1.33020	1.08710	1.10810	.97540	.78060	.77650	.78920
.979	6.425	-4.95370	2074.3999	1.33020	1.08300	1.11730	.98370	.78090	.77880	.79010
.979	8.555	-4.93780	2076.5000	1.32280	1.07900	1.11930	.99190	.77360	.77670	.79150
.978	10.688	-4.92850	2075.1000	1.31540	1.06670	1.12430	.99320	.77290	.76960	.79150
.979	12.844	-4.92480	2075.1000	1.30510	1.05540	1.12820	.99480	.76520	.76390	.77680
.977	15.043	-4.93130	2075.7999	1.28990	1.03120	1.12330	.99180	.75740	.75370	.75930
.978	17.149	-4.94220	2075.1000	1.26920	1.01100	1.11850	.98160	.74330	.73320	.74160
.977	19.319	-4.96370	2075.1000	1.24670	.98660	1.11020	.97130	.72910	.71830	.71830
.976	21.462	-4.94970	2075.1000	1.21970	.95580	1.09560	.95580	.71340	.70260	.69570
.977	23.576	-4.94250	2076.5000	1.19240	.92230	1.07960	.93480	.67450	.65440	.63480
.975	25.645	-4.91720	2075.1000	1.15990	.88810	1.06170	.91530	.66240	.63950	.63200
.979	GRADIENT	-4.87160	2074.3999	1.14780	.87630	1.05480	.90680	.65730	.64720	.65140
		.00180	-.16672	.00107	-.00039	.00663	.00616	-.00045	.00081	.00031

RUN NO. 657 0 RMYL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.049	.126	-4.95830	2040.5000	1.42790	1.16050	1.15840	1.00830	.72190	.78180	.71300
1.051	2.210	-4.95230	2038.3999	1.43180	1.16820	1.17600	1.03180	.72790	.71470	.72250
1.053	4.316	-4.95970	2041.2000	1.43640	1.16870	1.19100	1.04770	.72000	.70610	.71820
1.049	6.436	-4.95160	2038.3999	1.42990	1.16880	1.19910	1.05490	.71760	.70530	.71620
1.047	8.570	-4.94170	2040.5000	1.42180	1.14960	1.19760	1.05920	.70950	.69530	.70340
1.049	10.721	-4.93590	2041.2000	1.41230	1.13670	1.20170	1.05870	.70390	.68660	.69870
1.049	12.672	-4.92620	2038.3999	1.40040	1.12070	1.20560	1.05730	.69710	.68330	.69330
1.048	15.041	-4.94640	2040.5000	1.38400	1.09980	1.20010	1.05270	.69090	.67310	.68240
1.051	17.204	-4.93800	2038.3999	1.36380	1.07570	1.19430	1.04440	.67320	.66170	.64940
1.051	19.374	-4.96910	2039.3999	1.33380	1.04390	1.17800	1.02200	.65310	.62540	.59070
1.046	21.533	-4.95420	2043.3000	1.30970	1.00450	1.16300	1.00340	.64790	.61240	.51180
1.046	23.664	-4.95960	2042.6000	1.27940	.97100	1.14720	.98180	.63170	.58350	.50260
1.046	25.735	-4.94840	2040.5000	1.23920	.94020	1.11860	.92300	.60650	.53950	.54200
1.047	28.753	-4.86510	2042.6000	1.22580	.93130	1.10840	.89800	.61260	.55370	.55230
1.047	GRADIENT	.00204	.16936	.00203	.00195	.00785	.00940	-.00046	.00078	.00024

1AETR131 (02 AUG 76)

TABULATED DATA - 0A061 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 74 0 RNAL = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.100	.091	5.38610	2014.30000	943.28000	1.25080	1.44540	1.08510	1.16740	.70470	.68150	.69870
1.101	2.207	4.96320	2014.30000	942.58000	1.49040	1.19400	1.21830	1.04980	.70600	.68690	.68770
1.102	4.310	4.98440	2015.70000	943.99000	1.49430	1.18960	1.23170	1.06070	.70140	.68580	.68440
1.103	6.435	4.93690	2015.00000	943.28000	1.49080	1.18270	1.24230	1.07560	.69860	.68160	.67930
1.104	8.568	4.94820	2014.30000	945.37000	1.47950	1.17010	1.24260	1.09080	.69030	.67000	.66360
1.105	10.721	4.93380	2015.70000	945.38000	1.46930	1.15610	1.24500	1.08890	.68720	.66150	.65150
1.106	12.873	4.92200	2015.00000	944.67000	1.45230	1.13620	1.24370	1.08890	.68320	.65960	.65320
1.107	15.045	4.94060	2015.70000	944.68000	1.43640	1.11250	1.23860	1.07880	.67940	.65960	.65410
1.108	17.269	4.94980	2015.00000	944.68000	1.41450	1.08370	1.22440	1.06760	.67440	.65980	.65410
1.109	19.382	4.97300	2015.70000	944.68000	1.38730	1.04940	1.19800	.96270	.65790	.63440	.63160
1.110	21.531	4.95440	2015.00000	945.68000	1.36090	1.01900	1.17840	.94110	.64550	.62980	.62920
1.111	23.661	4.95810	2015.70000	945.68000	1.32800	.99960	1.14520	.91960	.63130	.61370	.61330
1.112	25.769	4.93600	2016.39999	945.39000	1.29770	.96860	1.12440	.91190	.62690	.60270	.60270
1.113	26.783	4.88800	2013.60001	945.06000	1.28460	.95690	1.11970	.91590	.61310	.59570	.59570
1.114	GRADIENT	-2.46840	.33148	.16779	.05777	-.06069	.03477	-.02532	-.00078	.00102	-.00339

RUN NO. 75 0 RN/L = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.148	.121	4.99490	2007.60001	882.58000	1.54610	1.21690	1.24440	1.06570	.70020	.67800	.67800
1.149	2.193	4.97270	2003.70000	882.60000	1.54910	1.21560	1.25900	1.07020	.69690	.67710	.67940
1.148	4.293	4.96780	2003.00000	883.29000	1.54360	1.20690	1.26760	1.07920	.69170	.67900	.68080
1.147	6.423	4.94950	2003.00000	884.68000	1.53780	1.19380	1.27580	1.09160	.68940	.67130	.67290
1.147	8.561	4.93970	2004.39999	885.35000	1.52860	1.18320	1.26970	1.09580	.68460	.66460	.66570
1.147	10.714	4.94270	2003.70000	884.69000	1.52050	1.17169	1.27560	1.09470	.67930	.65290	.64330
1.146	12.868	4.93410	2003.00000	885.38000	1.50250	1.15310	1.27480	1.08040	.67470	.64980	.64060
1.148	15.043	4.94330	2004.39999	884.68000	1.48640	1.12480	1.24860	1.06450	.66990	.64010	.62730
1.148	17.204	4.94670	2004.39999	881.21000	1.47200	1.10400	1.23380	.98810	.66620	.64320	.63960
1.148	19.380	4.97840	2005.10001	884.68000	1.44830	1.06810	1.19560	.95320	.64950	.62100	.61790
1.148	21.531	4.96570	2003.10000	884.68000	1.41320	1.04580	1.17810	.94720	.63710	.61400	.61400
1.149	23.664	4.95420	2003.00000	884.68000	1.39430	1.01940	1.15350	.93390	.62930	.60440	.60440
1.149	25.770	4.94540	2003.00000	881.90000	1.35080	.99580	1.13870	.92640	.61990	.59470	.59470
1.149	26.806	4.91030	2004.39999	891.21000	1.33140	.98070	1.12940	.91800	.61430	.57520	.57520
1.150	GRADIENT	.00648	.33331	.17039	-.00068	-.00240	.00565	-.00562	-.00824	.00024	.00024

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 OR51TER

(AE7R13) (02 AUG 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6880 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6880 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 ALLRON =

-5.000 ELEVON = .000
 .000 BOFLAP = -7.170

MACH	ALPHA	BETA	PT	84/ Q	RN/L	4.25	GRADIENT	INTERVAL = -5.00/ 5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.202	.102	-4.95080	2006.50000		824.81000	1.61480	1.26450	1.28580	1.07720	1.28580	1.07720	1.07720	1.07720	1.07720	1.07720
1.202	2.182	-4.95000	2009.39999		826.82000	1.60990	1.25640	1.29580	1.09160	1.29580	1.09160	1.09160	1.09160	1.09160	1.09160
1.203	4.280	-4.97050	2007.89999		824.82000	1.60720	1.25130	1.31060	1.10330	1.31060	1.10330	1.10330	1.10330	1.10330	1.10330
1.202	6.411	-4.96140	2009.39999		826.22000	1.60130	1.24320	1.31440	1.10330	1.31440	1.10330	1.10330	1.10330	1.10330	1.10330
1.200	8.553	-4.94470	2007.20000		827.59000	1.59320	1.23010	1.30290	1.07570	1.30290	1.07570	1.07570	1.07570	1.07570	1.07570
1.201	10.707	-4.94370	2006.60001		827.60000	1.58330	1.21480	1.29380	1.02860	1.29380	1.02860	1.02860	1.02860	1.02860	1.02860
1.201	12.864	-4.93590	2009.39999		827.61000	1.56820	1.19380	1.27400	1.00930	1.27400	1.00930	1.00930	1.00930	1.00930	1.00930
1.192	15.040	-4.93350	2007.89999		828.59000	1.55690	1.17020	1.25230	1.00330	1.25230	1.00330	1.00330	1.00330	1.00330	1.00330
1.198	17.199	-4.95490	2009.39999		831.08000	1.53000	1.14598	1.23210	.98110	1.23210	.98110	.98110	.98110	.98110	.98110
1.199	19.371	-4.97560	2007.20000		829.68000	1.50650	1.11920	1.21830	.95940	1.21830	.95940	.95940	.95940	.95940	.95940
1.197	21.516	-4.97100	2007.89999		831.77000	1.48110	1.09240	1.19840	.93520	1.19840	.93520	.93520	.93520	.93520	.93520
1.197	23.651	-4.96730	2008.60001		831.77000	1.44740	1.06680	1.17850	.91250	1.17850	.91250	.91250	.91250	.91250	.91250
1.193	25.779	-4.95320	2008.60001		835.95000	1.40910	1.03150	1.15850	.89430	1.15850	.89430	.89430	.89430	.89430	.89430
1.193	26.808	-4.92480	2007.89999		830.38000	1.39990	1.02110	1.15570	.88000	1.15570	.88000	.88000	.88000	.88000	.88000
1.198	GRADIENT	-.00233	.33361		.00145	-.00182	-.00346	.00554	.00539	.00554	.00539	.00539	.00539	.00539	.00539

MACH	ALPHA	BETA	PT	85/ Q	RN/L	4.25	GRADIENT	INTERVAL = -5.00/ 5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.297	.100	-5.00880	2005.10001		726.66000	1.72640	1.33470	1.33910	1.10240	1.33910	1.10240	1.10240	1.10240	1.10240	1.10240
1.297	2.166	-4.98080	2004.39999		725.93000	1.72620	1.32808	1.34750	1.06290	1.34750	1.06290	1.06290	1.06290	1.06290	1.06290
1.297	4.256	-5.01570	2004.39999		725.67000	1.72380	1.31580	1.34910	1.02900	1.34910	1.02900	1.02900	1.02900	1.02900	1.02900
1.295	6.381	-4.95680	2005.10001		728.13000	1.71850	1.30390	1.32030	1.03060	1.32030	1.03060	1.03060	1.03060	1.03060	1.03060
1.295	8.517	-4.97320	2005.10001		728.83000	1.70950	1.28460	1.30000	1.02490	1.30000	1.02490	1.02490	1.02490	1.02490	1.02490
1.294	10.672	-4.95510	2005.10001		729.53000	1.69990	1.26060	1.30040	1.01790	1.30040	1.01790	1.01790	1.01790	1.01790	1.01790
1.294	12.822	-4.95100	2005.10001		729.53000	1.68490	1.24050	1.29050	1.00570	1.29050	1.00570	1.00570	1.00570	1.00570	1.00570
1.293	14.995	-4.96370	2005.10001		730.23000	1.67390	1.22180	1.29050	.99760	1.29050	.99760	.99760	.99760	.99760	.99760
1.293	17.157	-4.98750	2005.10001		730.23000	1.64300	1.20430	1.27510	.99260	1.27510	.99260	.99260	.99260	.99260	.99260
1.293	19.327	-4.98820	2005.10001		730.23000	1.62060	1.17720	1.26340	.97980	1.26340	.97980	.97980	.97980	.97980	.97980
1.292	21.475	-4.98860	2005.10001		731.62000	1.58910	1.15310	1.24750	.96670	1.24750	.96670	.96670	.96670	.96670	.96670
1.294	23.617	-4.95120	2005.80000		730.23000	1.55860	1.11860	1.23200	.94290	1.23200	.94290	.94290	.94290	.94290	.94290
1.294	25.746	-4.95350	2006.50000		729.54000	1.52590	1.08990	1.22440	.93576	1.22440	.93576	.93576	.93576	.93576	.93576
1.293	26.796	-4.93970	2005.10001		730.23000	1.51090	1.07940	1.21870	.89610	1.21870	.89610	.89610	.89610	.89610	.89610
1.293	GRADIENT	-.00183	.00311		.00311	-.00063	-.00455	.00240	-.00166	.00240	-.00166	-.00166	-.00166	-.00166	-.00166

TABULATED DATA - 04161 (ARC 11-97-87-084)

ARC 11-97-87-084 ORBIT ORBITER

(AE7813) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XC
LREF = 474.8800 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 94/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.403	.074	-4.9770	2070.2000	648.10000	1.85740	1.41280	1.35190	1.04250	.61170	.56900	.57670
1.404	2.146	-5.01400	2063.5000	646.64000	1.86350	1.40760	1.34680	1.04980	.61130	.57050	.57410
1.402	4.235	-5.01220	2069.5000	648.12000	1.86220	1.39640	1.35270	1.05480	.61080	.56920	.57780
1.393	6.362	-4.98500	2073.2000	651.06000	1.84810	1.37100	1.34970	1.05330	.61070	.56770	.58250
1.400	8.497	-4.95360	2070.2000	650.32000	1.84820	1.35470	1.34460	1.05070	.60930	.56480	.58450
1.400	10.648	-4.95050	2070.2000	650.32000	1.83450	1.33340	1.34210	1.05070	.60380	.57720	.58810
1.399	12.794	-4.92250	2070.2000	651.79000	1.81450	1.30660	1.31120	1.03750	.59350	.56930	.58550
1.398	14.960	-4.95700	2070.2000	652.53000	1.80490	1.28120	1.33250	1.02530	.58580	.56120	.58140
1.398	17.126	-4.97640	2070.2000	652.53000	1.76880	1.26220	1.32160	1.01250	.58250	.54330	.47070
1.397	19.393	-4.99350	2070.2000	653.27000	1.74390	1.24040	1.31470	1.00190	.58760	.52230	.48470
1.393	21.461	-5.00530	2070.8999	651.04000	1.71410	1.21130	1.30670	.95780	.57130	.48440	.50300
1.400	23.605	-4.93460	2070.8999	651.04000	1.68440	1.18570	1.30310	.95690	.56580	.45950	.49300
1.393	25.736	-4.93050	2070.8999	652.52000	1.64330	1.15720	1.28620	.93230	.55490	.43900	.47590
1.393	26.786	-4.93930	2070.2000	651.79000	1.62890	1.14670	1.28410	.91270	.54450	.42650	.45570
GRADIENT		-5.0828	-1.6802	.00580	-.06125	-.00394	.00020	.00295	-.00027	.00008	.00027

RUN NO. 321/ 0 RN/L = 3.03 GRADIENT INTERVAL = -3.00/ 5.00

MACH.	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.019	-5.61910	1499.3999	376.44000	2.05185	1.50360	1.37620	1.04280	.57310	.58460	.53910
1.556	2.016	-5.61980	1500.1000	376.62000	2.05300	1.49080	1.38740	1.04940	.57550	.56650	.54770
1.556	4.095	-5.62010	1500.9000	376.80000	2.05110	1.48120	1.39380	1.05320	.57430	.56300	.56030
1.556	6.170	-5.61780	1499.3999	376.44000	2.04590	1.46680	1.40990	1.05270	.57600	.56420	.55000
1.556	8.243	-5.61820	1500.8000	376.80000	2.03540	1.45190	1.41780	1.06210	.56860	.56150	.52960
1.556	10.312	-5.61750	1502.2000	377.15000	2.02220	1.43650	1.40930	1.06480	.56880	.54140	.51830
1.556	12.359	-5.61750	1507.2000	378.39000	2.00120	1.41300	1.39850	1.05760	.56800	.50590	.50730
1.556	14.448	-5.62080	1510.0000	379.10000	1.97760	1.38730	1.39150	1.05830	.56130	.50220	.48020
1.556	16.597	-5.62030	1512.1000	379.64000	1.95740	1.36990	1.38010	1.04340	.56070	.48390	.47120
1.556	18.691	-5.62210	1514.3000	380.17000	1.92230	1.34430	1.37350	1.02850	.55170	.46810	.46810
1.556	20.726	-5.61970	1513.6000	379.99000	1.90230	1.31740	1.36820	1.00010	.52610	.50060	.47950
1.556	22.805	-5.61830	1512.8999	379.81000	1.88490	1.30010	1.36690	.97300	.49320	.45480	.48620
1.556	24.873	-5.61260	1513.6000	379.93000	1.83700	1.27550	1.36550	.96550	.44210	.44710	.44710
1.556	25.933	-5.61240	1514.2000	380.17000	1.82340	1.26360	1.37450	.95630	.46310	.42800	.43410
GRADIENT		-5.0024	-1.3432	.08830	-.00018	-.00549	.00431	.00230	.00029	-.00040	.00274

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1AETRI3) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-894)

ARC 11-97-87-894 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRRON = .000 EDIFLAP = -7.170

RUN NO. 330/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	.057	-5.44710	1648.60001	309.45000	2.34420	1.65470	1.47210	1.07460	.52970	.50330	.48810
1.750	2.014	-5.44800	1649.60001	309.45000	2.34450	1.64260	1.46230	1.06490	.53140	.51320	.48570
1.750	4.055	-5.44820	1649.39999	309.58000	2.34190	1.63380	1.45840	1.09300	.53090	.51370	.48550
1.750	6.094	-5.45230	1650.10001	309.72000	2.32700	1.62520	1.50440	1.09710	.53170	.52940	.49790
1.750	8.139	-5.45080	1650.10001	309.72000	2.31580	1.61430	1.49630	1.10750	.53010	.53160	.49120
1.750	12.181	-5.44960	1650.10001	309.72000	2.28360	1.58210	1.49880	1.09830	.51130	.47580	.45040
1.750	14.235	-5.44610	1649.39999	309.58000	2.26380	1.55470	1.49880	1.08560	.50710	.49110	.45910
1.750	16.338	-5.44610	1648.60001	309.45000	2.24080	1.54300	1.49850	1.07970	.49200	.48000	.45880
1.750	18.413	-5.44670	1649.39999	309.58000	2.21310	1.51350	1.50320	1.05700	.49830	.48200	.47530
1.750	20.401	-5.44450	1649.39999	309.58000	2.17970	1.49190	1.50790	1.03660	.47660	.45770	.43800
1.750	22.455	-5.44160	1650.10001	309.72000	2.15000	1.45810	1.49460	1.02100	.46030	.44290	.41430
1.750	24.472	-5.43370	1649.39999	309.58000	2.12230	1.42410	1.51020	.99510	.43460	.41190	.38670
1.750	26.464	-5.43630	1649.39999	309.58000	2.09970	1.39270	1.50220	.96480	.42160	.39820	.36670
GRADIENT		-1.00027	.20148	.03274	-.00184	-.00522	.00563	.00460	.00033	.00259	.00161

RUN NO. 331/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.997	.044	-5.97670	1809.89999	232.51000	2.79450	1.81100	1.64500	1.09820	.46940	.44050	.42410
1.997	1.915	-5.97770	1809.50000	232.33000	2.77560	1.81290	1.68230	1.11480	.46500	.44050	.41940
1.997	3.849	-5.97930	1809.20000	232.42000	2.77740	1.80240	1.65390	1.11930	.46150	.43920	.40340
1.997	5.975	-5.99020	1814.10001	233.05000	2.76790	1.79150	1.67000	1.12960	.46320	.43710	.41420
1.997	7.991	-5.97920	1804.20000	231.78000	2.75990	1.78270	1.68350	1.13850	.45350	.44600	.42070
1.997	9.999	-5.97770	1809.20000	232.42000	2.74270	1.76940	1.69270	1.13290	.44580	.45190	.41600
1.997	11.958	-5.97680	1809.89999	232.51000	2.71280	1.74820	1.69270	1.12330	.43340	.39290	.40820
1.997	13.959	-5.97470	1809.20000	232.42000	2.68210	1.72830	1.69940	1.11320	.42420	.37930	.39390
1.997	16.007	-5.97120	1809.20000	232.42000	2.68570	1.69800	1.67970	1.10080	.42670	.39200	.40510
1.997	18.029	-5.96970	1809.89999	232.51000	2.65420	1.68280	1.67220	1.08740	.42800	.38200	.41120
1.997	20.015	-5.96990	1815.60001	233.24000	2.62650	1.65260	1.67920	1.07630	.42800	.38300	.38900
1.997	22.033	-5.96600	1815.60001	233.24000	2.56310	1.60870	1.72770	1.06020	.42580	.35710	.35190
1.997	24.034	-5.95440	1815.60001	233.24000	2.48180	1.55560	1.73980	1.02460	.40100	.34650	.35190
1.997	26.972	-5.95390	1815.60001	233.24000	2.46540	1.52300	1.71700	1.01190	.38230	.33570	.33660
GRADIENT		-1.00080	.17165	-.02207	-.00430	-.00225	.00465	.00541	-.00177	.00738	-.00534

(AETR13) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITIER

PARAMETRIC DATA

BETA = -5.000 ELEVON = -000
 AIRLON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEC = 2680.0000 SQ.FT. YMRP = 1675.6800 IN. X0
 LREF = 474.6800 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .03000

RUN NO. 3497 0 RN/L = 3.03 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.250	1.138	-6.07330	1959.10001	169.51000	3.31210	2.02890	1.78910	1.14850	.44100	.40480	.39100
2.250	1.844	-6.07310	1960.60001	169.63000	3.31520	2.02480	1.78430	1.15630	.42940	.39110	.37510
2.250	3.902	-6.07220	1961.30000	169.70000	3.31340	2.02090	1.82100	1.15850	.42480	.39290	.36950
2.250	5.957	-6.07170	1961.30000	169.70000	3.29950	2.00198	1.85210	1.16160	.43390	.42970	.37970
2.250	8.003	-6.07160	1961.30000	169.70000	3.25250	1.97730	1.85810	1.16120	.41010	.41120	.35970
2.250	10.062	-6.06970	1960.60001	169.63000	3.28420	1.96430	1.86540	1.15710	.39240	.38030	.35410
2.250	12.093	-6.06720	1960.60001	169.63000	3.17500	1.90870	1.86230	1.14800	.37200	.31880	.32310
2.250	14.170	-6.06550	1960.60001	169.63000	3.20680	1.90870	1.87060	1.14700	.37130	.31280	.32450
2.250	16.297	-6.06470	1960.60001	169.63000	3.11690	1.89200	1.86560	1.14350	.37790	.32460	.33680
2.250	18.375	-6.06370	1961.30000	169.70000	3.11950	1.86990	1.86270	1.13410	.36850	.32590	.34180
2.250	20.387	-6.06310	1960.60001	169.63000	3.06570	1.82940	1.88880	1.12270	.36440	.30120	.35650
2.250	22.460	-6.05730	1960.60001	169.63000	3.00530	1.77310	1.87930	1.10780	.34480	.29800	.34480
2.250	24.511	-6.05530	1960.60001	169.63000	2.94540	1.73680	1.85480	1.06160	.33430	.29500	.32050
2.250	25.529	-6.05420	1960.60001	169.63000	2.91510	1.70680	1.84610	1.03560	.32920	.29300	.30260
GRADIENT					.00031	-.00188	.00795	.00247	-.08400	-.06292	-.00630

RUN NO. 416/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	1.03	-4.91250	1429.39999	83.83200	3.89420	2.25380	1.99950	1.18980	.47120	.36940	.36940
2.499	2.136	-4.91100	1432.89999	84.04000	3.85330	2.24940	2.00010	1.20130	.46380	.35240	.35390
2.499	4.174	-4.90200	1432.20000	83.93000	3.84260	2.24270	2.02710	1.21130	.45840	.34950	.34059
2.499	6.205	-4.97870	1432.20000	83.93000	3.84450	2.22880	2.02580	1.21790	.44600	.39100	.34030
2.499	8.249	-4.99370	1432.89999	84.04000	3.81050	2.21050	2.04540	1.21360	.43060	.35440	.29000
2.499	10.293	-5.00160	1434.30000	84.12500	3.75000	2.18410	2.05530	1.20580	.43860	.29930	.29930
2.499	12.333	-5.00950	1437.20000	84.25000	3.78120	2.16360	2.10200	1.22450	.41020	.30500	.30500
2.499	14.369	-5.00800	1438.60001	84.37200	3.71870	2.13660	2.08800	1.20320	.39410	.29640	.30380
2.499	16.411	-5.00800	1440.70000	84.49600	3.67660	2.13450	2.09030	1.19410	.37790	.29640	.28750
2.499	18.457	-5.00210	1440.00000	84.49500	3.61890	2.09150	2.08940	1.17930	.35770	.29030	.27580
2.499	20.492	-4.99160	1442.60000	84.62000	3.56880	2.04200	2.06300	1.15200	.33570	.25030	.26370
2.499	22.543	-4.97910	1441.35395	84.53900	3.48290	2.00380	2.05700	1.14750	.33540	.24070	.27230
2.499	24.577	-4.95040	1442.10001	84.57900	3.41970	1.97600	2.07670	1.13040	.34350	.25960	.26990
2.499	25.602	-4.95000	1442.10001	84.57900	3.38950	1.95030	2.05750	1.10700	.32680	.24480	.27680
GRADIENT					-.00285	-.00273	.00678	.00528	-.00511	-.00243	-.00710

TABULATED DATA - 0A16J (ARC 11-97-87-094)
ARC 11-97-87-094 0A16F ORBITIER

(AETW13) (02 AUG 78)

REFERENCE DATA

SPEC = 2690.0000 SO.FT. XMRP = 1076.6899 IN. X0
LREF = 474.6000 IN. YMRP = 0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0090 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA =
AIRLON =
-5.000 ELEVON = .000
.000 EDFLAP = -7.173

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	.003	-4.87920	1976.80000	50.71900	5.03520	2.75170	2.37400	1.25350	.46470	.32130	.37430
3.040	2.033	-4.90400	1976.80000	50.71900	5.01750	2.74020	2.37230	1.25820	.41730	.27370	.26670
3.040	4.059	-4.92480	1976.80000	50.70100	5.02240	2.74080	2.39440	1.28510	.42780	.29480	.27030
3.040	6.086	-4.94230	1976.80000	50.71900	4.99710	2.68850	2.38430	1.25380	.38090	.27230	.23730
3.040	8.119	-4.95350	1976.80000	50.71900	4.97610	2.67590	2.40180	1.24950	.36330	.25030	.23030
3.040	10.155	-4.96440	1976.80000	50.70100	4.95300	2.64930	2.43560	1.25170	.34450	.21840	.21840
3.040	12.189	-4.97280	1976.80000	50.71900	4.93340	2.61820	2.44670	1.24610	.33600	.21000	.20380
3.040	14.224	-4.97990	1976.80000	50.70100	4.91610	2.58920	2.47630	1.25890	.32590	.23390	.23400
3.040	16.262	-4.98560	1976.80000	50.71900	4.89570	2.57260	2.47820	1.26210	.31540	.23810	.23460
3.040	18.292	-4.99310	1976.80000	50.71900	4.87610	2.51180	2.46280	1.23030	.29540	.20540	.20110
3.040	20.319	-4.99340	1976.80000	50.71900	4.85800	2.48970	2.48520	1.24460	.31500	.19280	.19770
3.040	22.355	-4.93850	1976.10001	59.70100	4.83750	2.43220	2.46720	1.22220	.29320	.19770	.19770
3.040	24.391	-4.92140	1976.10001	50.70100	4.81670	2.38850	2.44200	1.18880	.27870	.18750	.19810
3.040	25.409	-4.91070	1976.80000	50.71900	4.80660	2.37110	2.43060	1.17790	.27850	.18750	.18750
GRADIENT		-0.1124	-1.17253	-0.00444	-0.0316	-0.0269	.00503	.00656	-.00910	-.08634	-.01085

RUN NO. 426/ 0 RVAL = 2.00 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	-1.180	-5.05730	2645.20001	34.74200	6.26480	3.26220	2.76780	1.35080	.49950	.30580	.30580
3.499	1.834	-5.11870	2642.39999	34.70500	6.26850	3.27550	2.78650	1.37730	.47870	.28980	.27950
3.499	3.886	-5.13980	2641.70001	34.68500	6.25810	3.23920	2.78310	1.36150	.42570	.24680	.24170
3.499	5.888	-5.15920	2643.10001	34.71400	6.26980	3.24810	2.83450	1.39970	.45000	.28150	.29090
3.499	7.909	-5.17150	2640.20001	34.67700	6.22010	3.18810	2.81990	1.36270	.39630	.23760	.22760
3.499	9.947	-5.17800	2642.39999	34.70500	6.19210	3.16940	2.85800	1.38240	.36880	.24390	.23350
3.499	11.955	-5.19540	2641.89999	34.68600	6.16550	3.13950	2.87250	1.36500	.36850	.21530	.20300
3.499	13.999	-5.19950	2642.39999	34.70500	6.13010	3.11190	2.91810	1.39340	.38930	.24610	.23590
3.499	16.035	-5.19520	2639.50000	34.68800	6.02760	3.07890	2.93600	1.41060	.39030	.26280	.25770
3.499	18.061	-5.17850	2642.39999	34.70500	5.93960	3.04210	2.94080	1.42270	.38790	.27070	.26050
3.499	20.087	-5.16850	2640.20001	34.67700	5.77430	2.96470	2.90340	1.36580	.32370	.21140	.23910
3.499	22.116	-5.15420	2641.70001	34.69500	5.67980	2.95690	2.94160	1.38650	.36660	.25440	.26440
3.499	24.147	-5.13570	2640.20001	34.67700	5.49650	2.85290	2.85290	1.30410	.28690	.16940	.18440
3.499	25.170	-5.12480	2641.70001	34.69600	5.45040	2.87020	2.87530	1.34560	.33590	.23890	.22580
GRADIENT		-0.1058	-1.65539	-0.1137	-0.0858	-0.0593	.00378	.00265	-.01823	-.01459	-.01585

RUN NO. 426/ 0 RVAL = 2.00 GRADIENT INTERVAL = -3.00/ 5.00

(AETRIN) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = -0.000
AILRON = .000 BDFLAP = -7.178

TABULATED DATA - OA161 (ARC 11-97-87-09#)

ARC 11-97-87-89# OA161 ORBITER

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1078.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6860 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 30/ 0 RNVL = 4.2# GRADIENT INTERVAL = -5.00# 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.598	.084	-1.84760	2594.29999	2037.00000	1.06190	1.01690	.99010	.96790	.95040	.94630	.95520
.600	2.128	-1.85510	2595.00000	2034.89999	1.06470	1.01980	.99520	.97230	.95140	.94660	.95580
.597	4.182	-1.84370	2595.00000	2039.80000	1.06610	1.02020	.99700	.97390	.94960	.94540	.95450
.597	6.257	-1.84320	2595.00000	2039.39999	1.06630	1.02010	.99990	.97620	.95060	.94690	.95640
.598	8.342	-1.84450	2595.00000	2037.00000	1.06480	1.01860	1.00260	.97770	.95160	.94850	.95660
.597	10.452	-1.84150	2595.00000	2038.39999	1.05900	1.01240	.99890	.97500	.95030	.94780	.95760
.597	12.576	-1.83900	2595.00000	2038.39999	1.05500	1.00720	.99760	.97330	.94820	.94500	.95670
.599	14.666	-1.83500	2595.00000	2036.30000	1.04740	.99940	.99530	.97190	.94740	.94400	.95470
.597	16.802	-1.83200	2594.29999	2039.39999	1.03800	.99070	.99090	.96750	.94370	.94050	.94890
.597	18.987	-1.86960	2594.29999	2039.10001	1.02600	.97850	.98530	.96040	.93730	.93480	.94090
.596	21.044	-1.86110	2595.00000	2040.50000	1.01250	.96450	.97690	.95310	.92980	.92690	.92940
.597	23.129	-1.84680	2595.00000	2039.10001	.99860	.95160	.96870	.94620	.92590	.92300	.92320
.599	25.204	-1.82160	2595.78001	2036.30000	.98300	.93550	.96070	.93780	.91130	.90840	.91550
.597	26.180	-1.77990	2595.74001	2039.10001	.97200	.92590	.95510	.93140	.90590	.90300	.90580
GRADIENT		.00096	.17056	.68368	.00078	.00080	.00163	.00146	-.00022	-.00022	-.00017

RUN NO. 35/ 0 RNVL = 4.2# GRADIENT INTERVAL = -3.00# 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.698	.087	-1.87870	2345.29999	1695.10001	1.09060	1.02840	.98520	.95540	.93140	.92550	.93830
.699	2.127	-1.85230	2345.29999	1692.39999	1.09270	1.03130	.99230	.96110	.93260	.92650	.93940
.698	4.193	-1.84360	2344.60001	1693.10001	1.09430	1.03270	.99660	.96500	.93230	.92800	.95920
.696	6.285	-1.83260	2344.60001	1696.08000	1.09180	1.03150	.99990	.96680	.93180	.92940	.94220
.695	8.365	-1.84710	2345.29999	1698.10001	1.08940	1.02690	.99950	.96790	.92920	.92590	.93800
.697	10.441	-1.83760	2345.29999	1696.00000	1.08750	1.02178	1.00160	.96790	.92790	.92620	.93940
.697	12.529	-1.82300	2344.60001	1695.30000	1.08450	.01460	.99980	.96680	.92540	.92570	.95780
.697	12.722	-1.83820	2344.60001	1695.30000	1.08120	1.01360	1.00130	.96700	.92570	.92650	.93830
.699	14.738	-1.84440	2344.60001	1692.39999	1.07110	1.00390	.99860	.96370	.92160	.92840	.93340
.697	16.881	-1.87450	2344.60001	1694.58000	1.05430	.99150	.99520	.96120	.91470	.92990	.90980
.696	19.015	-1.87560	2344.60001	1696.00000	1.04430	.97620	.98530	.94970	.90740	.91580	.89720
.695	21.151	-1.86970	2344.60001	1697.39999	1.02960	.95940	.97560	.94080	.90210	.92210	.89720
.695	23.251	-1.85290	2344.60001	1696.00000	1.00500	.93660	.96560	.93220	.89080	.88260	.87260
.698	25.293	-1.82400	2343.89999	1693.10001	.98540	.92230	.95310	.92540	.88230	.88230	.87260
.698	26.248	-1.77220	2343.89999	1693.10001	.97318	.91440	.94930	.91840	.86520	.87040	.86550
GRADIENT		.00856	.17136	.68101	.00090	.00105	.00327	.00234	.00622	.00061	.00022

TABULATED DATA - 0A161 (ARC 11-97-87-684)

(AE7R14) (02 AUG 75)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BPEF = 939.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.798	.082	-1.88950	2206.0000	1450.39899	1.12940	1.06100	.98410	.93930	.90420	.86980	.83790
.799	2.131	-1.86500	2203.7000	1449.00000	1.13220	1.05020	.99190	.94890	.90800	.87350	.84170
.797	4.214	-1.85390	2207.39999	1451.80000	1.13240	1.04990	.99950	.95440	.90720	.87280	.84020
.793	6.325	-1.84350	2207.39999	1451.10001	1.13340	1.04910	1.00750	.96190	.90850	.87300	.84030
.798	8.431	-1.84170	2208.10001	1451.80000	1.13180	1.04650	1.09820	.95360	.90510	.87000	.83780
.797	10.556	-1.83970	2208.10001	1452.50000	1.12610	1.03930	1.01200	.96660	.90480	.86980	.83750
.798	12.681	-1.83370	2208.79999	1451.80000	1.11100	1.02930	1.01030	.96660	.90350	.86870	.83620
.798	14.792	-1.82290	2208.10001	1451.10001	1.10540	1.01770	1.00310	.95950	.89820	.86350	.83100
.798	16.961	-1.80800	2208.79999	1451.80000	1.09170	1.00030	.98870	.93700	.87580	.84100	.80850
.798	19.112	-1.87240	2208.79999	1451.80000	1.07260	.98240	.98400	.94000	.87500	.84000	.80750
.797	21.253	-1.86340	2208.79999	1453.89999	1.05980	.95990	.97300	.92990	.86300	.82800	.79550
.797	23.336	-1.84570	2208.79999	1453.20000	1.02900	.93610	.96051	.91620	.84800	.81300	.78050
.799	25.367	-1.82470	2208.79999	1451.80000	1.00300	.91380	.96051	.91620	.84800	.81300	.78050
.798	26.313	-1.78400	2208.79999	1451.80000	.99300	.90170	.95020	.90850	.84000	.80500	.77250
	GRADIENT	.00861	.33684	.34160	.00072	.00092	.00373	.00565	.00011	.00020	.00017

RUN# NO. 45/ 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.847	.053	-1.86340	2155.79999	1348.10001	1.15280	1.06100	.98400	.92930	.88550	.84980	.81520
.848	2.135	-1.85080	2156.50000	1346.70000	1.15660	1.06440	.99570	.94380	.89830	.86250	.82800
.847	4.229	-1.85240	2155.79999	1348.10001	1.16080	1.06630	1.00790	.95400	.89050	.85400	.81950
.842	6.338	-1.84870	2157.20001	1349.50000	1.15790	1.06290	1.01400	.96200	.89070	.85300	.81850
.847	8.444	-1.84150	2156.50000	1349.50000	1.15330	1.05950	1.01720	.96570	.89100	.85300	.81850
.847	10.574	-1.83350	2156.50000	1348.10001	1.15160	1.05430	1.02220	.97090	.89400	.85600	.82150
.848	12.701	-1.82810	2157.20001	1348.10001	1.14330	1.04300	1.02080	.96960	.89300	.85500	.82050
.847	14.816	-1.83430	2156.50000	1346.80000	1.12970	1.02920	1.02010	.96750	.89000	.85200	.81750
.848	16.935	-1.80390	2157.20001	1347.39999	1.11600	1.01060	1.01780	.96660	.88900	.85100	.81650
.847	19.145	-1.8570	2157.69999	1350.20000	1.09200	.93840	.99270	.94230	.87000	.83200	.79750
.846	21.274	-1.86640	2157.20001	1350.89999	1.07140	.96430	.99770	.93090	.86400	.82600	.79150
.846	23.372	-1.85220	2157.20001	1350.20000	1.04540	.93830	.96760	.91930	.84400	.80600	.77150
.847	25.397	-1.82610	2157.20001	1348.80000	1.02060	.91460	.96760	.91930	.84400	.80600	.77150
.848	26.353	-1.79210	2157.20001	1348.10001	1.00450	.89850	.95880	.91010	.83500	.79700	.76250
	GRADIENT	.00264	.00032	.00063	.00184	.00127	.00572	.00591	.00096	.00132	.00062

(AETR14) (02 AUG 78)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AIRLON = -7.170

TABULATED DATA - 04154 (ARC 11-97-87-094)

ARC 11-97-87-094 04151 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 53/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.902	.083	-1.90310	2127.50000	1255.20000	1.19080	1.08580	.99870	.93820	.87290	.87030	.88320
.902	2.158	-1.87480	2127.50000	1255.20000	1.19510	1.08970	1.00920	.94980	.87270	.87070	.88780
.899	4.250	-1.86130	2127.50000	1258.70000	1.19350	1.08810	1.02040	.96100	.87330	.87010	.88540
.900	8.361	-1.84970	2128.20001	1258.70000	1.19630	1.08580	1.02990	.97000	.87280	.87110	.88420
.899	8.466	-1.84550	2126.79999	1258.50000	1.19220	1.08340	1.03730	.97860	.87610	.87410	.88750
.900	10.607	-1.83880	2128.20001	1258.00000	1.18500	1.07380	1.04140	.98360	.86790	.86570	.88940
.900	12.735	-1.83510	2128.20001	1258.00000	1.17720	1.06270	1.04180	.98230	.86890	.86610	.87390
.900	14.861	-1.82660	2127.50000	1258.00000	1.16350	1.04710	1.04010	.98190	.84930	.84900	.86040
.900	17.041	-1.82370	2127.50000	1258.00000	1.14680	1.02860	1.03440	.97790	.83530	.83076	.84780
.899	19.211	-1.81480	2127.50000	1258.70000	1.12520	1.00680	1.01330	.96920	.81740	.80770	.82790
.902	21.384	-1.80120	2129.50001	1255.89999	1.10500	.98010	1.01330	.95650	.78680	.78060	.79858
.897	23.427	-1.85470	2127.50000	1261.60001	1.07110	.94930	.99730	.94230	.75630	.74910	.75458
.901	25.491	-1.82980	2128.20001	1256.60001	1.04810	.92400	.98340	.92960	.72960	.72640	.72490
.902	28.491	-1.77950	2128.20001	1255.20000	1.03070	.90776	.97330	.91850	.72040	.71570	.71850
GRADIENT		.01003	-.00002	.84105	.00055	.00055	.00521	.00547	.00010	-.00005	.00053

RUN NO. 56/ 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.950	.061	-1.85610	2085.70001	1167.00000	1.23350	1.11750	1.02130	.95608	.83270	.82470	.84230
.951	2.164	-1.87030	2085.00000	1164.80000	1.23780	1.11970	1.03640	.95930	.82680	.82240	.83750
.948	4.269	-1.89810	2084.29999	1168.35999	1.23760	1.11930	1.04680	.98070	.83140	.82880	.84110
.948	6.394	-1.86120	2085.70001	1168.10001	1.23890	1.11720	1.05800	.98130	.82830	.82190	.84060
.949	8.518	-1.84570	2085.00000	1168.39999	1.23490	1.11470	1.06510	1.00320	.83710	.83100	.84850
.948	10.660	-1.83450	2085.70001	1169.10001	1.22560	1.10220	1.07810	1.00470	.83980	.83130	.85790
.948	12.795	-1.84170	2085.70001	1168.10001	1.21770	1.08940	1.06920	1.08400	.80510	.80100	.82320
.948	14.928	-1.83840	2085.00000	1169.10001	1.20020	1.07260	1.06590	1.00120	.78720	.79480	.80098
.949	17.128	-1.91230	2085.00000	1169.10001	1.18090	1.04970	1.06000	.99770	.78240	.77430	.78350
.946	19.296	-1.90880	2085.70001	1171.89999	1.15880	1.02640	1.04830	.98640	.76140	.75360	.76350
.947	21.440	-1.87980	2085.70001	1170.50000	1.13690	.99900	1.03710	.96300	.74060	.72730	.74570
.946	23.525	-1.86860	2085.00000	1171.20000	1.10780	.96830	1.01960	.95860	.70320	.70000	.69860
.946	25.586	-1.81350	2085.00000	1171.89999	1.07350	.93810	.99960	.94210	.68050	.68590	.68290
.948	26.576	-1.78120	2085.70001	1169.10001	1.06020	.92040	.99290	.92670	.67670	.66500	.64048
GRADIENT		-.00047	-.33273	.33292	.00037	.00043	.00636	.00567	-.00031	.00097	-.00028

TABULATED DATA - 0A161 (ARC 11-97-87-894)
ARC 11-97-87-094 0A161 ORBITTER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIRRON =

PARAMETRIC DATA

-2.000 ELEVON = .000
.000 BDFLAP = -1.170

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.991	.092	-1.8990	2073.7000	1119.8999	1.2690	1.1490	1.0470	.9780	.7870	.7750	.79150
.990	2.172	-1.8710	2073.0000	1121.3000	1.2680	1.1480	1.0460	.9770	.7860	.7740	.79050
.979	4.274	-1.8620	2076.5000	1123.3999	1.2710	1.1480	1.0460	.9770	.7850	.7730	.79000
.979	6.403	-1.8480	2077.2999	1124.1000	1.2700	1.1470	1.0450	.9760	.7840	.7720	.78950
.977	8.539	-1.8350	2074.3999	1124.8999	1.2690	1.1460	1.0440	.9750	.7830	.7710	.78900
.970	10.692	-1.8170	2075.1000	1124.8999	1.2680	1.1450	1.0430	.9740	.7820	.7700	.78850
.960	12.864	-1.8010	2078.0000	1124.1000	1.2670	1.1440	1.0420	.9730	.7810	.7690	.78800
.978	14.976	-1.8340	2075.1000	1124.8999	1.2660	1.1430	1.0410	.9720	.7800	.7680	.78750
.978	17.185	-1.9260	2075.1000	1124.2000	1.2130	1.0710	1.0820	.9160	.7380	.7260	.72980
.978	19.359	-1.8880	2077.2999	1125.6000	1.1890	1.0460	1.0720	.9050	.7100	.7020	.69320
.974	21.466	-1.8760	2072.2999	1128.5000	1.1540	1.0150	1.0530	.9870	.6800	.6650	.65960
.977	23.616	-1.8480	2078.0000	1127.0000	1.1320	1.0320	1.0380	.9740	.6560	.6480	.62610
.979	25.660	-1.8140	2074.3999	1124.2000	1.1020	.9590	1.0190	.9580	.6420	.6370	.60440
.972	26.677	-1.7740	2073.7000	1123.5000	1.0820	.9390	1.0100	.9440	.6330	.6290	.60020
GRADIENT		.00855	.57117	.83719	.00038	.00055	.00511	.00596	.00041		.00029

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.054	.085	-1.8920	2039.8000	1010.7000	1.3680	1.2320	1.1270	1.0520	.7240	.7090	.72640
1.051	2.178	-1.8640	2039.6000	1014.9000	1.3670	1.2300	1.1260	1.0510	.7230	.7080	.72600
1.052	4.290	-1.8430	2043.3000	1014.2000	1.3720	1.2330	1.1380	1.0750	.7220	.7070	.71390
1.049	6.419	-1.8520	2039.1000	1015.3000	1.3650	1.2290	1.1620	1.0840	.7170	.7040	.71600
1.045	8.559	-1.8490	2038.3999	1019.8000	1.3570	1.2150	1.1630	1.0880	.7130	.7000	.71210
1.052	10.721	-1.8240	2044.0000	1014.9000	1.3560	1.2060	1.1740	1.0970	.7020	.6870	.68480
1.047	12.864	-1.8170	2039.1000	1019.1000	1.3460	1.1850	1.1640	1.0890	.6960	.6830	.68000
1.047	15.017	-1.8500	2039.1000	1019.1000	1.3180	1.1640	1.1500	1.0830	.6840	.6690	.66510
1.043	17.238	-1.9020	2044.0000	1019.1000	1.2960	1.1390	1.1510	1.0770	.6710	.6560	.63660
1.046	19.416	-1.8940	2042.5000	1020.5000	1.2960	1.1090	1.1350	1.0630	.6640	.6410	.62340
1.044	21.576	-1.8950	2039.8000	1023.9000	1.2880	1.0780	1.1150	1.0410	.6410	.6200	.60270
1.044	23.697	-1.8570	2043.3000	1024.7000	1.2820	1.0420	1.0960	1.0220	.6290	.5720	.58880
1.051	25.768	-1.8290	2042.6000	1015.6000	1.1800	1.0170	1.0810	1.0040	.6170	.5590	.53520
1.048	25.753	-1.7570	2039.8000	1017.7000	1.1590	1.0010	1.0620	.9590	.6060	.5740	.53200
GRADIENT		.00218	.82845	.82869	.00092	.00033	.00634	.00537	.00059	.00073	.00296

1AETRI41 (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AHLRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1976.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 73# 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00# 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.100	.086	-1.90230	2013.60001	943.27000	1.42130	1.26630	1.15420	1.07350	.71680	.69810	.70410
1.100	2.175	-1.86700	2014.30000	943.28000	1.42030	1.26920	1.17790	1.09130	.71640	.69560	.70710
1.100	4.289	-1.83850	2015.00000	943.98000	1.42120	1.26570	1.19240	1.10100	.71440	.69440	.70330
1.098	6.416	-1.84620	2014.30000	946.07000	1.41700	1.25940	1.20200	1.11520	.71020	.69720	.70010
1.098	8.999	-1.83620	2015.00000	946.08000	1.41120	1.24610	1.20360	1.12140	.70690	.69510	.69370
1.098	10.719	-1.82530	2015.00000	946.08000	1.40070	1.23440	1.20800	1.12320	.70160	.69370	.69520
1.098	12.871	-1.81090	2014.30000	945.57000	1.38540	1.21310	1.20240	1.11790	.69480	.69000	.67150
1.097	15.031	-1.79350	2015.00000	947.48000	1.36920	1.18800	1.19450	1.10670	.67460	.67460	.65420
1.097	17.249	-1.79770	2014.30000	946.77000	1.34180	1.15920	1.18000	1.09750	.65190	.65340	.61980
1.099	19.427	-1.80760	2015.70000	945.38000	1.31820	1.12890	1.15270	1.07100	.63210	.62330	.58490
1.099	21.581	-1.87340	2017.10001	945.39000	1.28790	1.09570	1.12570	99270	.64930	.64070	.58920
1.099	23.634	-1.86710	2016.35999	945.39000	1.25560	1.06180	1.08010	97410	.64930	.64070	.58920
1.098	25.782	-1.82550	2015.70000	945.08000	1.22180	1.03440	1.05440	96130	.61270	.54210	.55390
1.098	26.770	-1.76990	2015.00000	946.08000	1.20410	1.02330	1.04360	95540	.60690	.53930	.53720
	GRADIENT	.01517	.33328	.16938	.00012	-.00015	.00671	.00692	-.00057	.00031	.00004

RUN NO. 76# 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00# 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.150	.060	-1.86070	2001.60001	880.43000	1.46810	1.29650	1.20310	1.09820	.70550	.68510	.68520
1.150	2.160	-1.86430	2002.30000	880.50000	1.46780	1.29120	1.21730	1.10870	.70220	.68140	.68780
1.150	4.270	-1.85380	2005.10001	881.91000	1.46500	1.28650	1.23700	1.12010	.70200	.68100	.68830
1.148	6.402	-1.85520	2003.00000	883.29000	1.46060	1.27460	1.24130	1.13200	.69720	.68430	.69030
1.149	8.549	-1.84070	2004.39999	884.00000	1.44950	1.25900	1.23810	1.13430	.69350	.68210	.67210
1.148	10.714	-1.82780	2003.70000	883.30000	1.43880	1.24650	1.23950	1.13370	.69080	.68060	.66180
1.147	12.865	-1.81320	2003.70000	884.69000	1.42370	1.23190	1.22590	1.13840	.68410	.67310	.65330
1.149	15.022	-1.80990	2004.39999	883.99000	1.40890	1.21900	1.21960	1.07230	.67140	.65180	.63410
1.149	17.237	-1.80990	2003.00000	883.60000	1.39870	1.17850	1.17740	1.03830	.65750	.63560	.61560
1.149	19.411	-1.82990	2003.00000	881.90000	1.36130	1.14740	1.14960	1.02180	.65460	.63560	.61560
1.151	21.555	-1.82330	2005.10001	880.52000	1.33210	1.11870	1.11570	1.00180	.64610	.62700	.59410
1.150	23.681	-1.85380	2003.00000	881.20000	1.30190	1.09160	1.09890	.98910	.63940	.62000	.58400
1.150	25.779	-1.83230	2004.39999	881.21000	1.26870	1.07230	1.06910	.98570	.63230	.61300	.57250
1.146	26.787	-1.77950	2003.70000	885.39000	1.24650	1.05750	1.05350	.98050	.61396	.53490	.54910
	GRADIENT	.00255	.83165	.33762	-.00074	-.00235	.00713	.00591	-.00093	-.00097	-.00164

(AETR14) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 1076.6800 IN. X0
 LREF = 474.6000 IN. YMRP = .0000 IN. Y0
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0390

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 ALLRON = .000 BDFLAP = -7.770

MACH	ALPHA	BETA	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.201	.084	-1.89680	826.90000	1.53750	1.34490	1.23250	1.10778	.67740	.65150	.65560
1.202	2.153	-1.87610	826.21000	1.52940	1.34630	1.25120	1.12940	.67960	.65910	.65930
1.199	4.262	-1.87400	829.98000	1.52500	1.33830	1.25850	1.13510	.67600	.65080	.64920
1.198	6.390	-1.85460	829.67000	1.51780	1.32730	1.26400	1.14240	.67000	.64310	.64310
1.196	8.543	-1.82470	833.47000	1.50929	1.31340	1.25750	1.12820	.66810	.63750	.63610
1.193	10.711	-1.81900	839.37000	1.50107	1.30198	1.25020	1.10350	.66360	.62750	.63360
1.197	12.861	-1.82560	831.07000	1.48823	1.28410	1.20290	1.06050	.65480	.62210	.61790
1.202	15.014	-1.83500	826.21000	1.48553	1.25330	1.18870	1.03430	.64200	.60930	.60530
1.200	17.231	-1.82200	827.90000	1.45000	1.23220	1.17230	1.03960	.62930	.60340	.59930
1.197	19.478	-1.83700	831.07000	1.42010	1.19870	1.15270	1.02800	.62240	.60200	.59800
1.197	21.553	-1.86270	831.77000	1.38730	1.17040	1.13210	1.01282	.62350	.59070	.58600
1.197	23.582	-1.86750	831.77000	1.36430	1.14810	1.10060	1.00430	.61500	.58440	.58040
1.195	25.784	-1.83630	833.85000	1.32240	1.11800	1.07730	.98590	.59970	.54060	.54060
1.197	26.811	-1.81110	831.77000	1.31180	1.10780	1.07420	.97626	.58420	.50380	.52870
		.00544	.50042	-.00227	-.00159	.00651	.00655	-.00322	.00282	-.00154

GRADIENT

RUN NO. 66/ 0 R/V/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.299	.039	-1.85990	724.45000	1.63730	1.41550	1.28940	1.14300	.64530	.61400	.61550
1.299	2.131	-1.86150	723.73000	1.63360	1.41090	1.28850	1.11840	.64190	.61620	.61500
1.293	4.236	-1.85050	724.46000	1.63350	1.40370	1.26760	1.09560	.64260	.62700	.62660
1.293	6.364	-1.85680	725.98000	1.62780	1.39140	1.24260	1.09260	.63750	.64810	.64810
1.296	8.512	-1.84030	727.40000	1.61590	1.37290	1.23330	1.09010	.63190	.64030	.63990
1.295	10.673	-1.84050	728.13000	1.60520	1.35478	1.23290	1.08630	.62980	.63130	.63140
1.295	12.821	-1.84580	722.13000	1.59110	1.33360	1.21960	1.07440	.61650	.64450	.63960
1.295	14.976	-1.86350	729.13000	1.56670	1.31300	1.26740	1.06650	.60860	.64200	.63620
1.295	17.182	-1.90540	727.40000	1.54960	1.28740	1.20080	1.05750	.60510	.61490	.61740
1.294	19.354	-1.89810	728.83000	1.52470	1.26480	1.18170	1.04340	.59340	.62560	.62560
1.293	21.520	-1.88540	730.92000	1.48730	1.23810	1.15950	1.04070	.59350	.60560	.60560
1.294	23.641	-1.88280	729.53000	1.45430	1.21390	1.14100	1.03350	.58290	.54720	.54720
1.294	25.757	-1.82970	728.84000	1.42240	1.18560	1.12960	1.02560	.57480	.49010	.49010
1.295	25.793	-1.82750	728.83000	1.40490	1.17240	1.12120	.98090	.56710	.46240	.46240
		.00017	.00275	-.00019	-.00281	-.00513	-.01132	-.00064	.00370	-.00236

GRADIENT

(AETR14) (02 AUG 75)

TABULATED DATA - OM161 (ARC 11-97-87-09*)

ARC 11-97-87-09* OM161 ORBITER

REFERENCE DATA

SREF = 2680.000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.770

RUN NO. 93/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.401	.049	-1.8860	2046.80000	641.92000	1.76040	1.50260	1.25910	1.09580	58150	58020	58150
1.401	2.119	-1.8530	2043.00000	642.62000	1.49430	1.49430	1.26080	1.09930	57740	57740	57880
1.402	4.213	-1.8406	2048.29999	641.88000	1.74250	1.48538	1.27070	1.10750	57840	57840	57480
1.393	5.336	-1.8768	2048.29999	644.11000	1.72480	1.46800	1.27260	1.1250	59330	59330	58420
1.399	8.483	-1.8530	2048.00000	644.83000	1.72180	1.44710	1.26420	1.11160	59150	59150	55380
1.399	10.645	-1.8240	2049.00000	645.57000	1.78920	1.42660	1.26330	1.10680	56170	56170	55310
1.397	12.783	-1.8310	2049.00000	647.84000	1.68750	1.39950	1.24890	1.09930	58760	58760	51830
1.399	14.932	-1.8790	2049.00000	644.83000	1.69220	1.38170	1.24520	1.09250	55110	55110	50840
1.399	17.145	-1.9135	2049.00000	644.83000	1.65290	1.36150	1.23040	1.08990	58530	58530	49040
1.393	19.323	-1.8970	2049.00000	644.83000	1.62650	1.33910	1.21560	1.07970	58150	58150	48910
1.397	21.483	-1.8990	2049.00000	647.04000	1.59300	1.31100	1.20360	1.06990	58010	58290	46580
1.399	23.609	-1.8936	2049.70001	645.55000	1.56110	1.28910	1.19560	1.03480	50930	50930	46930
1.399	25.732	-1.8310	2049.70001	646.29000	1.52880	1.26170	1.17770	1.01240	55840	55840	46310
1.395	26.778	-1.8049	2048.29999	647.79000	1.50580	1.24210	1.16890	1.00150	54230	54230	43610
	GRADIENT	.01153	.35893	-.00785	-.00429	-.00416	.00279	.00284	-.00624	-.00848	-.00161

RUN NO. 322/ 0 RN/L = 3.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.026	-2.58840	1512.10001	379.64000	1.92240	1.63440	1.27780	1.09700	58730	58730	55800
1.556	2.023	-2.59750	1512.89999	379.81000	1.92500	1.62040	1.29020	1.10480	58590	58590	55690
1.555	4.030	-2.58910	1511.39999	379.46000	1.92190	1.61340	1.30430	1.11320	58380	58380	55290
1.555	6.163	-2.55990	1512.69999	379.81000	1.90990	1.59790	1.30640	1.11920	58140	58550	55000
1.555	8.244	-2.59790	1512.89999	379.81000	1.88940	1.58250	1.30680	1.12150	57110	57010	54770
1.555	12.354	-2.59710	1512.89999	379.81000	1.86140	1.55240	1.29880	1.13350	54600	50440	50540
1.555	14.433	-2.58320	1512.10001	379.64000	1.84280	1.52750	1.28910	1.10540	53270	48900	50470
1.555	18.622	-2.58140	1515.70000	380.53000	1.78880	1.47100	1.26950	1.10940	52680	50210	48850
1.555	20.715	-2.57870	1515.39999	380.70000	1.75840	1.44540	1.27820	1.08120	51390	51850	45950
1.555	22.798	-2.57510	1515.00000	380.53000	1.74340	1.42660	1.26530	1.06870	49670	49160	44910
1.555	24.885	-2.57050	1515.70000	380.53000	1.71150	1.39560	1.25340	1.04560	46240	43300	43650
1.555	26.972	-2.57040	1516.39999	380.70000	1.68660	1.38430	1.24800	1.03620	43210	42930	42410
	GRADIENT	-.00018	-.17545	-.04501	-.00013	-.00416	.00279	.00284	-.00094	-.00278	-.00126

TABULATED DATA - QAI61 (ARC 11-97-87-094)

ARC 11-97-87-094 QAI61 CRBITER

(AE7R14) (DE AUG 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRLON = .050 BOFLAP = -7.170

RUN NO. 329/ 0 RM/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	RT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-1.155	-2.40120	1649.39999	309.58000	2.18190	1.82590	1.37008	1.17250	55680	53150	51670
1.750	.065	-2.41380	1650.10001	309.72000	2.18330	1.82050	1.36710	1.17250	55710	53180	51700
1.750	1.921	-2.40490	1650.10001	309.72000	2.17840	1.81540	1.37280	1.18340	55480	52970	51530
1.750	3.885	-2.46710	1649.39999	309.58000	2.18130	1.81450	1.37810	1.18680	55560	53000	51730
1.750	5.944	-2.40770	1649.39999	309.58000	2.17850	1.80610	1.38920	1.18810	55420	52890	51790
1.750	10.122	-2.40770	1649.39999	309.58000	2.14000	1.78290	1.38300	1.20030	52770	49680	51110
1.750	12.127	-2.40590	1649.39999	309.58000	2.11570	1.75730	1.38250	1.19550	51620	48390	49420
1.750	14.167	-2.40590	1649.39999	309.58000	2.09750	1.73690	1.37400	1.18650	50630	47510	48120
1.750	16.285	-2.40470	1649.39999	309.58000	2.07610	1.71270	1.36860	1.17820	49670	46560	47260
1.750	18.379	-2.40120	1649.39999	309.58000	2.04720	1.69350	1.37170	1.17140	48660	45540	46260
1.750	20.395	-2.40090	1649.39999	309.58000	2.01420	1.66040	1.37010	1.16510	47670	44520	45240
1.750	22.471	-2.39740	1649.39999	309.58000	1.97850	1.62010	1.35450	1.15720	46700	43500	44340
1.750	24.528	-2.39430	1649.39999	309.58000	1.94470	1.58540	1.35210	1.14500	45760	42520	43400
1.750	25.544	-2.39120	1649.39999	309.58000	1.92370	1.56540	1.35210	1.13370	44780	41540	42510
GRADIENT		.00007	-.06114	-.01223	-.00052	-.00244	.00262	.00349	-.00043	.00266	-.00083

RUN NO. 332/ 0 RM/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	RT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.997	-1.142	-2.93580	1814.89999	233.15000	2.61820	2.02330	1.48310	1.19530	47380	44720	43370
1.997	1.764	-2.93520	1812.70000	232.87000	2.60860	2.02640	1.50480	1.21750	47510	44910	44010
1.997	3.731	-2.93490	1814.89999	233.15000	2.60360	2.00900	1.50680	1.23560	48040	47050	42710
1.997	6.125	-2.93560	1814.89999	233.15000	2.58330	1.95590	1.51060	1.24270	48990	47530	43980
1.997	10.252	-2.93310	1814.10001	233.06000	2.56690	1.95570	1.50060	1.25390	48370	42700	42760
1.997	14.385	-2.93350	1814.89999	233.15000	2.47470	1.91390	1.53500	1.21850	42710	38630	41590
1.997	16.537	-2.93080	1814.89999	233.15000	2.41910	1.86780	1.53200	1.21380	42380	38490	40880
1.997	18.626	-2.92800	1814.10001	233.08000	2.42020	1.85750	1.52040	1.20880	41580	38460	39150
1.997	20.653	-2.92560	1814.10001	233.06000	2.37180	1.80930	1.51810	1.19920	40260	35260	37400
1.997	22.719	-2.92250	1815.60001	233.24000	2.34630	1.77670	1.50100	1.20820	39230	34260	36580
1.997	24.800	-2.91920	1814.89999	233.15000	2.24580	1.71160	1.48330	1.17360	37770	33260	33970
1.997	26.358	-2.91760	1815.60001	233.24000	2.23280	1.70620	1.48730	1.17470	37760	33300	33950
GRADIENT		.00103	.00587	.00074	-.00323	-.00526	.00637	.00922	.00171	.00602	-.00224

(AETRIN) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.08C ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A16N (ARC 11-97-87-094)

ARC 11-97-87-094 0A16N ORBITER

REFERENCE DATA

SEEF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. X0
LOEF = 474.6000 IN. YMRP = .0000 IN. Y0
BPEF = 936.6880 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 3464 0 RV/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.250	-1.133	-3.03380	1940.00000	167.85000	2.96650	2.24240	1.58020	1.26240	1.44290	1.15000	1.39500
2.250	1.849	-3.03228	1937.30988	167.37000	2.97240	2.23810	1.59110	1.26180	1.43800	1.40240	1.38620
2.250	3.906	-3.03120	1937.20000	167.61000	2.97496	2.22110	1.58630	1.29550	1.43440	1.43000	1.37190
2.250	5.951	-3.03130	1940.70000	167.92000	2.96870	2.21500	1.59940	1.29520	1.42880	1.42130	1.38050
2.250	8.005	-3.03120	1942.20000	168.04000	2.94530	2.20488	1.60460	1.29730	1.42590	1.41740	1.38620
2.250	10.056	-3.02950	1942.89999	168.10000	2.91860	2.19540	1.60460	1.29478	1.40110	1.39250	1.37640
2.250	12.087	-3.02900	1943.60001	168.17000	2.88850	2.17850	1.62710	1.29478	1.38410	1.37150	1.36550
2.250	14.162	-3.02690	1948.50000	168.59000	2.87930	2.16520	1.63120	1.30200	1.38110	1.36440	1.34730
2.250	16.283	-3.02620	1949.99999	168.72000	2.84060	2.12670	1.62930	1.29340	1.37380	1.35280	1.33280
2.250	18.354	-3.02380	1949.99999	168.72000	2.79870	2.09150	1.63490	1.27580	1.36780	1.34540	1.32880
2.250	20.375	-3.02060	1950.70000	168.78000	2.75150	2.05500	1.62610	1.27580	1.35310	1.33400	1.31110
2.250	22.446	-3.01880	1950.70000	168.78000	2.70570	2.00190	1.62740	1.25400	1.33700	1.31910	1.29880
2.250	24.498	-3.01580	1949.99999	168.72000	2.52710	1.93250	1.63930	1.23840	1.32470	1.29340	1.26990
2.250	25.517	-3.01430	1952.10001	168.90000	2.59868	1.94620	1.62270	1.23090	1.33940	1.28880	1.26890
GRADIENT					.00208	-.00529	.00149	-.00822	-.00211	.00378	-.00537

RUN NO. 417/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	1.117	-1.94050	1449.89999	85.03500	3.46080	2.59280	1.72510	1.34240	1.47470	1.37640	1.35760
2.499	2.151	-1.95020	1449.20000	84.99400	3.46880	2.60590	1.74760	1.37320	1.47390	1.37640	1.35680
2.499	4.178	-1.95950	1449.89999	85.03500	3.45910	2.58800	1.75450	1.38050	1.46550	1.37770	1.35900
2.499	6.214	-1.96710	1449.20000	84.99400	3.44780	2.56970	1.77180	1.39240	1.45680	1.38140	1.35210
2.499	8.255	-1.97330	1449.20000	84.99400	3.42720	2.54910	1.77130	1.37850	1.44580	1.37050	1.35580
2.499	10.291	-1.97840	1449.20000	84.99400	3.40578	2.52900	1.79920	1.42300	1.43970	1.35940	1.34780
2.499	12.332	-1.98100	1449.89999	85.03500	3.38440	2.49770	1.79340	1.42300	1.43970	1.35940	1.34780
2.499	14.373	-1.98380	1449.89999	85.03500	3.36410	2.47730	1.79960	1.37710	1.43970	1.35940	1.34780
2.499	16.417	-1.98390	1449.89999	85.03500	3.34190	2.46370	1.80740	1.39350	1.43970	1.35940	1.34780
2.499	18.458	-1.98180	1449.69999	85.03500	3.31930	2.44820	1.79470	1.38250	1.43970	1.35940	1.34780
2.499	20.501	-1.97600	1449.89999	85.03500	3.29630	2.43770	1.78160	1.38250	1.43970	1.35940	1.34780
2.499	22.548	-1.97500	1449.89999	85.03500	3.27710	2.42480	1.78160	1.38250	1.43970	1.35940	1.34780
2.499	24.590	-1.95850	1449.89999	85.03500	3.12700	2.32480	1.76870	1.34290	1.43970	1.35940	1.34780
2.499	25.615	-1.95850	1449.89999	85.03500	3.00470	2.24920	1.76890	1.35390	1.43970	1.35940	1.34780
GRADIENT					-.00037	-.00118	.00724	.00338	-.00226	.00066	-.00034

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(AETR114) (02 AUG 78)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 ABLON = -7.170

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.0000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .3300

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	.046	-1.86680	1976.80000	50.71900	4.44450	3.24710	2.00410	1.45690	.45300	.31290	.29190
3.040	2.065	-1.87620	1975.80000	50.71900	4.42110	3.22608	1.99940	1.48770	.42300	.29810	.26460
3.040	4.097	-1.88680	1976.80000	50.71900	4.43910	3.23540	2.04220	1.52780	.44310	.31710	.28910
3.040	6.123	-1.89250	1976.80000	50.71900	4.45510	3.18760	2.02390	1.48770	.39420	.26460	.26100
3.040	8.153	-1.90000	1976.80000	50.71900	4.46490	3.18760	2.07170	1.53650	.42060	.29470	.26070
3.040	10.187	-1.90250	1976.80000	50.71900	4.46910	3.14090	2.06670	1.51730	.38360	.26410	.25410
3.040	12.217	-1.90780	1976.80000	50.71900	4.46110	3.11660	2.10650	1.53990	.39280	.25700	.25700
3.040	14.256	-1.90760	1976.80000	50.71900	4.29480	3.06970	2.08260	1.51210	.33600	.21700	.21350
3.040	16.290	-1.90900	1976.80000	50.71900	4.21340	3.02650	2.06710	1.51790	.31640	.20990	.21840
3.040	18.321	-1.90750	1976.80000	50.71900	4.14340	2.98450	2.07410	1.50090	.33040	.22190	.21340
3.040	20.361	-1.90460	1976.80000	50.71900	4.04870	2.91630	2.05460	1.51550	.30100	.20280	.21750
3.040	22.395	-1.89990	1976.80000	50.71900	3.95680	2.88420	2.03460	1.49280	.31500	.22480	.20880
3.040	24.430	-1.89390	1976.80000	50.71900	3.86570	2.82250	2.03540	1.46640	.30310	.20510	.20690
3.040	25.460	-1.88390	1976.80000	50.71900	3.85990	2.80940	2.02160	1.46640	.35940	.28440	.26090
GRADIENT					-.00132	-.00288	.00642	.00776	-.00243	.00106	-.00068

RUN NO. 427/ 0 RUN/L = 1.99 GRADIENT INTERVAL = .5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	-.174	-1.97800	2649.39999	34.79900	5.41409	3.86338	2.29210	1.65170	.50270	.31460	.30450
3.499	1.842	-1.99090	2650.79999	34.81500	5.41390	3.86140	2.28900	1.64770	.45680	.28370	.27360
3.499	3.868	-1.99660	2653.70001	34.85300	5.42350	3.87040	2.33190	1.69200	.48880	.32630	.30090
3.499	5.902	-2.00640	2653.00000	34.84400	5.43300	3.83110	2.32540	1.66620	.43360	.27020	.24480
3.499	7.924	-2.01230	2653.60001	34.82500	5.43050	3.79750	2.34700	1.68020	.42310	.26350	.25000
3.499	9.947	-2.01770	2653.70001	34.85300	5.43680	3.75670	2.34470	1.67430	.39430	.24190	.24190
3.499	11.972	-2.02270	2652.29999	34.83500	5.42040	3.71500	2.37380	1.68290	.38740	.24320	.23500
3.499	14.009	-2.02170	2651.60001	34.82600	5.24910	3.67350	2.37200	1.67590	.35900	.21150	.21150
3.499	16.039	-2.02100	2655.79999	34.88100	5.17830	3.65530	2.39520	1.73630	.38050	.25390	.23350
3.499	18.066	-2.02120	2653.00000	34.84400	5.08880	3.60020	2.40630	1.74560	.37920	.26230	.24200
3.499	20.093	-2.02150	2653.10001	34.87200	4.96990	3.51200	2.36910	1.70870	.33320	.23800	.22770
3.499	22.135	-2.01230	2653.70001	34.85300	4.87760	3.46040	2.36260	1.71230	.33030	.22240	.20200
3.499	24.167	-2.00680	2654.39999	34.85300	4.77130	3.40410	2.33680	1.69630	.32400	.21230	.20210
3.499	25.181	-2.00370	2653.00000	34.84400	4.69250	3.37030	2.30750	1.67180	.31400	.21290	.20068
GRADIENT					.00379	.00176	.00981	.01127	-.00342	.00291	-.00068

PARAMETRIC DATA

BETA =
ALLRON =
ELEVON = .000
BOLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 31/ 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.598	.075	.19450	2594.29999	2037.00000	1.04620	1.03320	.98270	.97510	.96060	.94660	.93680
.599	2.125	.20690	2595.00000	2037.00000	1.04720	1.03490	.98620	.97980	.96150	.94690	.93690
.596	4.183	.20860	2594.29999	2039.80000	1.04990	1.03600	.98970	.98130	.96140	.94690	.93690
.597	6.253	.21040	2595.00000	2038.39999	1.05030	1.03460	.99146	.98460	.96190	.94770	.93700
.596	8.344	.21520	2595.00000	2040.50000	1.04837	1.03200	.99096	.98340	.96190	.94750	.93770
.597	10.444	.21130	2595.00000	2039.10001	1.04423	1.02900	.99070	.98500	.96190	.94830	.93700
.597	12.540	.20970	2595.00000	2033.10001	1.04073	1.02260	.98820	.98230	.96190	.94760	.93700
.597	14.656	.22340	2595.70001	2039.10001	1.03550	1.01420	.98500	.97920	.96190	.94760	.93700
.597	16.772	.21590	2595.70001	2039.80000	1.02190	1.00310	.98180	.97550	.96190	.94760	.93700
.597	18.885	.21300	2595.00000	2039.80000	1.01000	.99280	.97350	.96540	.96190	.94760	.93700
.597	20.999	.20210	2595.70001	2040.50000	.99750	.98080	.96550	.95900	.96190	.94760	.93700
.596	23.093	.20130	2595.39999	2041.30000	.98160	.95510	.94720	.94590	.96190	.94760	.93700
.597	25.168	.20700	2595.39999	2037.00000	.96430	.94900	.94720	.94590	.96190	.94760	.93700
.599	26.147	.16810	2595.39999	2037.00000	.95980	.94260	.94720	.94590	.96190	.94760	.93700
GRADIENT		.00343	-.00025	.66205	.00090	.00068	.00116	.00151	.00002	.00002	.00015

RUN NO. 35/ 0 RM/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.599	.064	.19100	2357.29999	1701.60001	1.06900	1.04990	.97520	.96520	.93690	.92450	.93820
.598	2.125	.21190	2357.29999	1702.30000	1.06980	1.05130	.98010	.97050	.93220	.92710	.93880
.599	4.196	.20990	2356.60001	1700.20000	1.07340	1.05500	.98770	.97720	.93140	.92820	.93950
.596	6.287	.21800	2358.60001	1704.50000	1.07210	1.05170	.98760	.97760	.93190	.92690	.94140
.597	8.396	.21550	2357.29999	1704.50000	1.06970	1.04830	.98990	.98120	.93290	.93100	.94140
.597	10.508	.21490	2357.29999	1704.50000	1.06540	1.04230	.98840	.98020	.92910	.92740	.94140
.597	12.608	.22120	2356.60001	1703.80000	1.05810	1.03390	.98810	.97950	.92770	.92730	.94140
.597	14.734	.22270	2356.60001	1703.80000	1.04720	1.02460	.98820	.97950	.92770	.92730	.94140
.597	16.858	.21410	2357.29999	1703.80000	1.03430	1.01300	.97870	.97180	.92650	.92610	.94140
.597	18.993	.20860	2357.29999	1703.80000	1.02180	.99910	.97100	.96590	.92650	.92610	.94140
.596	21.115	.19560	2357.29999	1705.60001	.98190	.96190	.96310	.95650	.92650	.92610	.94140
.596	23.215	.19220	2358.00000	1703.00000	.95670	.93210	.94990	.94550	.92650	.92610	.94140
.597	25.271	.21430	2356.60001	1703.00000	.95230	.92440	.94990	.94550	.92650	.92610	.94140
.597	26.243	.18330	2357.29999	1701.60001	.95180	.93120	.94990	.94550	.92650	.92610	.94140
GRADIENT		.00457	-.16953	-.33935	.00107	.00123	.00173	.00299	.00012	.00090	.00031

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(AETR:5) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
 AILROM = .000
 ELEVON = .000
 ECLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.739	.043	19230	2197.50000	1443.30000	1.10090	1.07490	.96570	.95410	.95600	.90190	.91550
.739	2.122	21540	2193.20001	1443.30000	1.10200	1.07810	.96760	.95160	.95770	.90460	.91580
.739	.98	22050	2198.20001	1444.70000	1.10590	1.07890	.96760	.95160	.95770	.90460	.91580
.739	6.322	22600	2198.20001	1444.70000	1.10730	1.07910	.96820	.95220	.95830	.90520	.91630
.739	8.439	23240	2198.20001	1445.39999	1.10410	1.07630	.96500	.95180	.95500	.90400	.91550
.739	10.555	23900	2198.20001	1445.39999	1.09930	1.06740	.95900	.94700	.94300	.89810	.91150
.739	12.577	24590	2198.20001	1445.39999	1.09110	1.05750	.95000	.93800	.93400	.88910	.90250
.739	14.599	25330	2198.20001	1445.39999	1.07650	1.04530	.93500	.92300	.91900	.87410	.88750
.739	16.552	26100	2198.20001	1445.39999	1.06090	1.03200	.91500	.90300	.89900	.85410	.86750
.739	18.489	26900	2198.20001	1445.39999	1.04400	1.01400	.89800	.88600	.88200	.83710	.85050
.739	20.429	27730	2207.39999	1447.50000	1.02460	.99590	.87500	.86300	.85900	.81410	.82750
.739	22.394	28600	2207.39999	1447.50000	.99930	.96860	.84800	.83600	.83200	.78710	.80050
.739	24.339	29500	2207.39999	1447.50000	.97570	.94500	.82500	.81300	.80900	.76410	.77750
.739	26.231	30400	2207.39999	1447.50000	.95030	.92000	.80000	.78800	.78400	.73910	.75250
.739	28.067	31300	2207.39999	1447.50000	.92120	.89070	.77070	.75870	.75470	.70980	.72320
GRADIENT		.00675	.16733	.33572	.00122	.00074	.00400	.00230	.00190	.00110	.00110

RUN NO. 41/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.845	.035	15520	2153.60001	1348.80000	1.12160	1.09010	.96560	.95410	.95600	.90190	.91550
.845	2.134	21130	2155.50000	1346.70000	1.12700	1.09550	.96990	.95300	.95900	.90300	.91700
.845	4.227	20650	2155.50000	1346.70000	1.13040	1.09620	.96990	.95300	.95900	.90300	.91700
.845	6.330	21220	2155.50000	1348.10001	1.12990	1.09500	.96940	.95200	.95800	.90200	.91600
.845	8.447	22450	2157.20001	1348.80000	1.12470	1.09210	.96500	.94800	.95400	.90100	.91500
.845	10.555	22530	2157.20001	1348.80000	1.12030	1.08360	.95900	.94200	.94800	.89700	.91100
.845	12.577	23220	2157.20001	1348.80000	1.11230	1.07200	.95000	.93300	.93900	.88800	.90200
.845	14.599	23990	2157.20001	1348.80000	1.09750	1.05990	.93500	.91800	.92400	.87300	.88700
.845	16.552	24780	2157.20001	1348.80000	1.07950	1.04410	.91500	.89800	.90400	.85300	.86700
.845	18.489	25600	2157.20001	1348.80000	1.05930	1.02280	.89500	.87800	.88400	.83700	.85100
.845	20.429	26430	2157.20001	1351.20000	1.03730	.99720	.87000	.85300	.85900	.81200	.82600
.845	22.394	27300	2157.20001	1351.20000	1.01070	.97200	.84500	.82800	.83400	.78700	.80100
.845	24.339	28150	2157.20001	1348.80000	.98740	.95000	.82500	.80800	.81400	.76700	.78100
.845	26.231	29000	2157.20001	1348.80000	.96120	.92400	.80000	.78300	.78900	.74200	.75600
.845	28.067	29870	2157.20001	1348.80000	.93211	.89590	.77070	.75370	.75970	.71200	.72600
GRADIENT		.01230	.32687	.57205	.00211	.00190	.00570	.00330	.00290	.00220	.00220

RUN NO. 46/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

(AETRTS) (02 AUG 76)

TABLATED DATA - 00161 (ARC 11-97-87-094)
ARC 11-97-87-084 00161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AFLRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 52/ 0 RUN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.047	.18810	2127.50000	1258.00000	1.15430	1.11820	.97850	.95530	.87340	.86920	.88460
.903	2.1	.20240	2127.50000	1254.50000	1.16010	1.12730	.99330	.96900	.87510	.87020	.88650
.898	4.2	.20430	2127.50000	1258.70000	1.15920	1.12240	1.00190	.97760	.87080	.87230	.88660
.898	6.356	.21080	2127.50000	1260.20000	1.15880	1.12110	1.01200	.98970	.87400	.87380	.88810
.899	8.472	.21290	2127.50000	1259.50000	1.15890	1.11630	1.01650	.98930	.87460	.87430	.88890
.900	10.604	.21680	2127.50000	1258.00000	1.14930	1.10840	1.01940	1.00280	.86870	.86820	.88590
.898	12.723	.21800	2126.79999	1260.89999	1.14034	1.09420	1.01950	.99810	.85820	.84850	.87210
.897	14.869	.21910	2127.50000	1261.60001	1.12320	1.08060	1.01750	.99970	.84510	.84240	.85280
.901	17.049	.21500	2127.50000	1255.89999	1.10890	1.06570	1.01450	.99860	.83580	.84380	.84190
.897	19.153	.22950	2126.79999	1261.60001	1.08720	1.04240	1.00050	.98910	.81500	.80730	.82980
.896	21.287	.21300	2126.79999	1262.39999	1.06390	1.01680	.98850	.97840	.78460	.78060	.79730
.898	23.403	.20930	2127.50000	1260.70000	1.03460	.98980	.95850	.95460	.76070	.75340	.75670
.899	25.440	.19910	2127.50000	1259.50000	1.00750	.98430	.95850	.95550	.73380	.71880	.73580
.900	28.438	.14580	2128.20001	1258.00000	.99350	.94660	.94810	.94350	.72220	.71280	.72180
GRADIENT		.00385	.00000	.16593	.00117	.00100	.00552	.00597	.00067	.00074	.00048

RUN NO. 57/ 0 RUN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.950	.053	.19590	2085.70001	1167.00000	1.19630	1.15520	1.00110	.97800	.83410	.82410	.84310
.957	2.152	.21040	2085.00000	1164.80000	1.19950	1.16120	1.01630	.98980	.83410	.82650	.84050
.958	4.274	.20680	2084.29999	1168.39999	1.19900	1.15770	1.02740	1.00050	.83790	.83240	.84770
.949	6.394	.21320	2085.00000	1168.39999	1.20070	1.15800	1.04010	1.01290	.83720	.83510	.84980
.949	8.529	.23390	2085.70001	1168.39999	1.19610	1.15170	1.04380	1.01980	.83150	.82090	.83850
.948	10.678	.23170	2085.00000	1169.10001	1.18730	1.14060	1.04570	1.02340	.82010	.81310	.83230
.949	12.800	.22380	2085.70001	1169.80000	1.17710	1.12650	1.04590	1.02350	.80270	.79570	.81840
.947	14.951	.23320	2085.00000	1169.80000	1.16190	1.11330	1.04430	1.02430	.79570	.78770	.79640
.948	17.111	.23900	2085.78001	1169.80000	1.14330	1.09330	1.03720	1.01970	.77600	.77290	.78780
.950	19.270	.23710	2087.20001	1167.00000	1.12850	1.07060	1.02820	1.01540	.76600	.76510	.77910
.949	21.331	.20320	2087.20001	1169.39999	1.09710	1.04220	1.01290	1.00170	.75760	.72790	.73910
.949	23.467	.20930	2086.39999	1169.10001	1.06560	1.01520	.99560	.98690	.71480	.70380	.70570
.949	25.549	.20930	2086.39999	1169.10001	1.03800	.98520	.98520	.97820	.68840	.66080	.69050
.949	26.942	.17170	2086.39999	1168.39999	1.02110	.97030	.96930	.96230	.68680	.65830	.64840
GRADIENT		.00298	.33171	.33190	.00084	.00059	.00623	.00533	.00090	.00197	.00109

TABULATED DATA - 0A15 (ARC 11-97-87-094)

ARC 11-97-87-094 0A15 ORBITER

(AE7R15) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.0000 IN. YMRP = .0000 IN. YQ
BREF = 936.6000 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0506

BETA =
AILRON =

ELEVON = .000
BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 62 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.980	.053	.17530	2072.29999	1.26730	1.18650	1.02490	1.03010	.78860	.77150	.79290
.981	2.166	.19760	2075.50000	1.23050	1.18920	1.04070	1.01140	.78960	.77970	.79420
.980	4.277	.20620	2074.39999	1.23420	1.18660	1.05360	1.02570	.78890	.78370	.79470
.980	6.402	.20980	2073.00000	1.23440	1.18550	1.05350	1.03340	.78860	.77800	.79210
.979	8.550	.23320	2077.29999	1.22740	1.17810	1.06830	1.04150	.77200	.77200	.79210
.980	10.706	.22410	2075.79999	1.21960	1.16760	1.07021	1.04580	.77110	.76380	.77760
.978	12.845	.22860	2073.70001	1.20750	1.15060	1.06940	1.04430	.76360	.75160	.76520
.976	14.989	.22620	2075.79999	1.18830	1.13560	1.06350	1.04110	.74110	.72890	.74390
.990	17.169	.21940	2075.79999	1.17300	1.11680	1.05860	1.03900	.73149	.71880	.72990
.974	19.297	.22070	2073.70001	1.14410	1.08870	1.04290	1.02870	.72570	.71930	.71910
.974	21.443	.20580	2075.10001	1.11940	1.06120	1.03170	1.01730	.72210	.72210	.72210
.976	23.539	.20640	2078.70001	1.08790	1.03390	1.01150	1.00140	.68590	.68360	.68360
.977	25.618	.23350	2075.10001	1.05890	1.00330	.98180	.98520	.66060	.64400	.61390
.979	26.601	.18450	2074.39999	1.04100	.99370	.98340	.97540	.64040	.60010	.60010
GRADIENT		.00731	.49715	.00163	.00050	.00679	.00559	.00054	.00283	.00073

RUN NO. 67 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.052	.059	.20030	2041.20000	1.32100	1.27520	1.10250	1.07380	.72300	.70270	.71980
1.051	2.174	.21030	2040.50000	1.32320	1.27570	1.11790	1.08330	.73110	.70950	.72290
1.050	4.296	.21900	2040.50000	1.32470	1.27390	1.13930	1.09490	.72560	.70790	.71900
1.048	6.420	.22040	2041.20000	1.32180	1.26790	1.14050	1.10710	.72660	.71370	.72110
1.043	8.575	.22700	2040.50000	1.31720	1.26220	1.14570	1.11470	.72310	.71080	.72250
1.049	10.737	.23220	2041.89999	1.30560	1.24840	1.14490	1.11850	.72010	.70010	.72770
1.050	12.882	.22370	2041.20000	1.29480	1.23420	1.14650	1.11840	.69710	.67450	.68950
1.051	15.047	.22450	2042.60001	1.27640	1.21460	1.12880	1.11260	.67960	.65440	.66440
1.051	17.219	.21990	2041.89999	1.25390	1.19160	1.10880	1.10480	.67010	.64730	.65440
1.048	19.384	.20800	2041.20000	1.22410	1.16140	1.08800	1.09210	.66290	.63950	.64510
1.040	21.534	.21000	2043.30000	1.18800	1.10460	1.07380	1.06310	.65950	.63290	.63290
1.050	23.645	.21480	2042.60001	1.16630	1.06360	1.04790	1.03820	.64580	.61480	.61480
1.048	25.721	.19900	2042.60001	1.13800	1.03590	1.03560	1.00160	.61710	.58570	.58570
1.043	26.716	.15900	2042.60001	1.11510	1.00030	.00656	.00498	.00061	.00123	.00005
GRADIENT		.00441	.16511	.00087	-.00031	.00656	.00498	.00061	.00123	.00005

TABULATED DATA - 0A181 (ARC 11-97-87-084)

(AE7R15) (02 AUG 76)

ARC 11-97-87-084 0A181 ORBLTER

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = 0000 IN. YO
 BREF = 938.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

RUN NO. 72/ 0' RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.100	.052	.17320	2015.00000	943.98000	1.37130	1.31650	1.13710	1.11030	.72180	.70310	.71230
1.099	2.169	.19820	2014.30000	944.67000	1.36940	1.31700	1.15240	1.11750	.71900	.70090	.71330
1.101	4.290	.21240	2015.00000	942.58000	1.37410	1.31830	1.16800	1.12620	.71650	.70160	.70950
1.098	6.416	.21600	2014.30000	945.37000	1.37210	1.31010	1.17820	1.13650	.71390	.70240	.70520
1.098	8.570	.22330	2016.39999	946.78000	1.35990	1.29510	1.17930	1.14380	.71200	.69840	.70050
1.092	10.729	.22770	2015.00000	945.08000	1.35180	1.28290	1.18290	1.15090	.70870	.69010	.69500
1.098	12.888	.22350	2015.00000	946.08000	1.33600	1.26560	1.17870	1.14480	.70020	.67970	.67970
1.098	15.063	.22590	2015.70000	946.78000	1.31480	1.24180	1.16630	1.13610	.69390	.67480	.65570
1.098	17.238	.21730	2017.10001	945.78000	1.29190	1.21620	1.15060	1.12250	.67390	.65800	.62600
1.098	19.390	.20900	2016.39999	945.39000	1.26570	1.18470	1.12620	1.10600	.66700	.64120	.61020
1.101	21.533	.20490	2018.50000	944.71000	1.23620	1.15660	1.09860	1.03660	.65300	.62990	.58180
1.101	25.744	.21380	2017.10001	944.00000	1.16770	1.09320	1.02270	1.00320	.62110	.58110	.54710
1.097	GRADIENT	.17430	2013.60001	945.76000	1.15410	1.07930	1.01260	1.00520	.61390	.53510	.54240
		.00825	.00013	-.33058	.00066	.00042	.00729	.00375	-.00125	-.00035	-.00065

RUN NO. 77/ 0' RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.149	.051	.20100	2002.30000	881.89000	1.41350	1.35000	1.17500	1.13020	.70470	.68170	.69500
1.149	2.160	.22410	2002.30000	881.20000	1.41310	1.34840	1.19030	1.14160	.70660	.68430	.69680
1.149	4.276	.20730	2003.00000	881.90000	1.41310	1.34750	1.20490	1.15420	.70510	.68490	.69260
1.146	6.401	.22240	2002.30000	884.68000	1.40750	1.33070	1.21370	1.16160	.70180	.68490	.68370
1.146	8.554	.22240	2003.00000	886.07000	1.40070	1.32040	1.21400	1.16780	.70170	.68720	.68800
1.147	10.727	.22190	2003.00000	883.98000	1.38610	1.30500	1.21370	1.17600	.69580	.67020	.68010
1.147	12.889	.20930	2003.70000	884.69000	1.37020	1.28780	1.20090	1.16360	.67750	.65710	.65770
1.145	15.051	.22350	2002.30000	884.68000	1.35520	1.26950	1.18890	1.13610	.67180	.64200	.63900
1.147	17.220	.20900	2004.39999	884.69000	1.33000	1.24160	1.13610	1.07820	.65530	.64850	.60720
1.149	19.387	.21440	2005.10001	883.30000	1.30060	1.21240	1.10310	1.06590	.65230	.65430	.59898
1.152	21.517	.19860	2004.39999	879.82000	1.27890	1.18280	1.07700	1.04590	.64630	.60740	.57250
1.151	23.638	.20360	2005.10001	880.52000	1.24720	1.15410	1.05620	1.03160	.64030	.57860	.56770
1.149	25.740	.20620	2003.00000	881.90000	1.21400	1.12980	1.02940	1.02880	.62250	.54330	.55000
1.150	GRADIENT	.15940	2004.39999	881.91000	1.19600	1.10910	1.01170	1.02060	.61320	.53850	.54960
		.00149	.16577	.00255	-.00009	-.00059	.00719	.00569	-.00009	.00076	-.00057

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(AE7R15) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.045	.17370	2007.89999	829.68000	1.46910	1.40260	1.19590	1.13990	.68150	.65570	.66260
1.202	2.152	.23030	2007.20000	825.51000	1.46650	1.40000	1.21290	1.13780	.68600	.66410	.66590
1.199	4.271	.21440	2007.20000	828.98000	1.46300	1.39350	1.23060	1.16540	.68470	.66810	.66040
1.198	6.393	.20760	2007.20000	830.37000	1.45670	1.38200	1.23020	1.16220	.68990	.66990	.65120
1.197	8.560	.21820	2006.50000	831.06000	1.45200	1.37180	1.23050	1.15310	.67560	.66480	.64810
1.198	10.727	.22680	2007.89999	830.38000	1.43970	1.35890	1.19890	1.10930	.67200	.63980	.64190
1.196	12.878	.27830	2007.20000	832.46000	1.43140	1.33900	1.16080	1.08900	.65970	.64080	.62410
1.199	15.044	.22560	2007.89999	829.68000	1.41670	1.32160	1.14640	1.08900	.64230	.59370	.59780
1.197	17.207	.21570	2007.20000	831.07000	1.38340	1.28870	1.12270	1.07330	.62340	.61070	.56780
1.194	19.362	.21190	2007.20000	834.55000	1.35330	1.25990	1.10120	1.06630	.61910	.54180	.53880
1.201	21.507	.20870	2007.20000	827.69000	1.33280	1.23980	1.08410	1.06210	.61990	.53200	.55910
1.191	23.632	.20310	2006.50000	837.34000	1.29140	1.20830	1.05260	1.04690	.59650	.51400	.52060
1.192	25.741	.20120	2007.89999	836.65000	1.25820	1.17810	1.02570	1.02910	.60570	.52540	.53880
1.193	26.780	.20390	2006.50000	832.45000	1.25360	1.16870	1.02660	1.02740	.60076	.52540	.53880
	GRADIENT	.00961	-.16547	-.16395	-.00144	-.00215	.00881	.00664	.00076	.00293	-.00052

RUN NO. 87/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.298	.036	.21900	2004.39999	725.19000	1.56880	1.47750	1.24860	1.17190	.65100	.61920	.62020
1.299	2.130	.21640	2003.70000	724.46000	1.56260	1.47580	1.25690	1.16770	.65440	.62380	.62340
1.298	4.248	.24450	2004.39999	725.19000	1.56000	1.46890	1.22200	1.14020	.65140	.63080	.61870
1.297	6.355	.20010	2004.39999	726.67000	1.55510	1.45900	1.20150	1.13830	.64970	.62260	.62720
1.295	8.527	.22450	2006.10000	728.13000	1.54450	1.44220	1.19610	1.13090	.64280	.63650	.60410
1.295	10.694	.21410	2005.10000	728.13000	1.53460	1.42730	1.18900	1.13220	.63880	.63890	.59610
1.295	12.841	.21000	2005.10000	728.13000	1.52310	1.40480	1.17230	1.12320	.62720	.61130	.56640
1.295	14.998	.22900	2004.39999	728.13000	1.51350	1.38260	1.15850	1.11620	.61680	.58840	.54800
1.295	17.167	.19370	2005.10000	728.83000	1.47450	1.35660	1.14520	1.10520	.59870	.58910	.51140
1.294	19.319	.20250	2004.39999	729.53000	1.44980	1.31090	1.12680	1.10200	.59760	.53790	.50280
1.295	21.465	.20120	2005.80000	729.84000	1.41980	1.28530	1.10050	1.09020	.59290	.53720	.49790
1.296	23.593	.20560	2005.80000	728.84000	1.38480	1.25530	1.08260	1.07460	.59370	.50410	.49010
1.295	25.718	.22210	2006.50000	729.54000	1.35110	1.25840	1.06710	1.04520	.56670	.45610	.46720
1.295	26.764	.21470	2005.80000	728.12000	1.33690	1.24680	1.05880	1.03820	.56670	.45610	.46720
	GRADIENT	.00607	.00061	.00063	-.00209	-.00204	-.00638	-.00754	.00004	.00275	-.00036

(AE7R15) (02 AUG 76)

PARAMETER/C DATA

.000 ELEVON = .000
.000 BOFLAP = -7.170

BETA =
AILRON =

TABULATED DATA - OAI61 (ARC 11-97-87-094)

ARC 11-97-87-094 OAI61 ORBITER

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XG
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 92/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.403	.017	.17260	2048.29999	641.16000	1.59050	1.57150	1.20420	1.13300	.63170	.59090	.59500
1.403	.017	.21540	2048.29999	641.16000	1.67420	1.59680	1.21970	1.14430	.62950	.59530	.59590
1.402	.022	.23980	2048.29999	641.83000	1.67120	1.53750	1.22130	1.15630	.63050	.60410	.58800
1.399	.034	.21640	2048.29999	644.11000	1.66080	1.53990	1.22460	1.15780	.62530	.61450	.58150
1.399	.045	.20770	2048.29999	644.84000	1.64960	1.51790	1.21610	1.15590	.62130	.59280	.56740
1.397	.059	.19940	2048.29999	646.30000	1.63210	1.49520	1.20780	1.14990	.61130	.58130	.54980
1.388	.075	.20220	2048.29999	645.53000	1.61880	1.47820	1.19970	1.14470	.60450	.57520	.52980
1.399	.098	.23760	2048.29999	644.83000	1.61630	1.45420	1.18540	1.14510	.59730	.54890	.50570
1.398	.124	.19910	2048.29999	644.11000	1.57650	1.44040	1.17480	1.14060	.59110	.54800	.50270
1.389	.158	.19130	2048.29999	645.53000	1.5620	1.41860	1.15210	1.13150	.58590	.54650	.47470
1.397	.197	.20150	2048.29999	645.30000	1.51500	1.39750	1.13660	1.11650	.58560	.53150	.45600
1.395	.234	.20850	2048.29999	647.79000	1.48270	1.35280	1.12260	1.09540	.58190	.53500	.43230
1.404	.256	.21270	2048.29999	641.12000	1.46310	1.34850	1.11550	1.08700	.56640	.45950	.43110
1.396	.267	.22540	2048.29999	647.05000	1.43550	1.23700	1.09140	1.07570	.55330	.45950	.40167
		.01598	.00000	.17372	.00461	.00333	.00465	.00554	.00028	.00344	

RUN NO. 323/ 0 RN/L = 3.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.042	.53920	1515.70000	380.53000	1.83750	1.72950	1.22230	1.15160	.59130	.57170	.56560
1.556	.029	.54070	1515.00000	380.35000	1.84310	1.72410	1.23540	1.16110	.59910	.57530	.56040
1.555	.016	.54170	1515.00000	380.35000	1.84030	1.71530	1.23680	1.17270	.59720	.57850	.56040
1.555	.017	.54160	1515.00000	380.35000	1.82960	1.70100	1.24740	1.17540	.59130	.56390	.56990
1.555	.024	.54240	1515.70000	380.53000	1.84390	1.68570	1.24510	1.17820	.58990	.56050	.55700
1.555	.032	.54370	1519.89999	381.59000	1.80760	1.66780	1.24450	1.18290	.58900	.55840	.54030
1.555	.035	.53940	1523.50000	382.48000	1.79120	1.64990	1.24460	1.18450	.58510	.55130	.52150
1.555	.038	.53780	1525.00000	383.01000	1.78450	1.62940	1.22600	1.18260	.58200	.54420	.51140
1.559	.043	.53920	1528.39999	383.72000	1.78730	1.60290	1.21810	1.18260	.58020	.53100	.48530
1.555	.046	.53680	1532.70000	384.79000	1.77420	1.57520	1.22210	1.16700	.57160	.54200	.48560
1.555	.048	.53680	1536.89999	385.85000	1.76070	1.54690	1.20990	1.15180	.56250	.52490	.46020
1.556	.052	.52940	1539.00000	385.38000	1.66070	1.51840	1.19300	1.14180	.55020	.51230	.45020
1.556	.056	.52190	1539.00000	386.38000	1.62570	1.48480	1.18470	1.12940	.54610	.50260	.42100
1.556	.057	.51960	1539.00000	386.38000	1.60790	1.46980	1.18700	1.12940	.54610	.50260	.42100
1.559	.058	.51960	1537.60000	386.03000	1.60790	1.46980	1.18700	1.12940	.54610	.50260	.42100
		.00964	.17095	.04396	.00067	.00352	.00354	.00520	.00143	.00167	

GRADIENT

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIRLON =

PARAMETRIC DATA

.000 ELEVON = .000
.000 BQFLAP = -7.170

RUN NO. 328/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-.007	-.35290	1649.39999	309.58000	2.08590	1.94099	1.29470	1.23250	.56288	.53760	.53180
1.750	1.986	-.35450	1649.39999	309.58000	2.08130	1.92210	1.31460	1.26320	.56110	.53400	.53400
1.750	6.104	-.35448	1650.10001	309.72000	2.07750	1.91100	1.31690	1.27010	.56330	.53090	.54300
1.750	8.153	-.35420	1649.39999	309.58000	2.05810	1.89600	1.32770	1.27580	.53390	.52530	.52130
1.750	10.205	-.35460	1649.39999	309.58000	2.03980	1.88410	1.32490	1.28500	.50670	.50670	.50290
1.750	12.211	-.35226	1649.39999	309.58000	2.01890	1.85320	1.32030	1.28840	.52240	.48120	.49490
1.750	14.278	-.36058	1650.10001	309.72000	1.98970	1.84090	1.32030	1.27750	.51380	.48670	.48570
1.750	16.409	-.34710	1649.39999	309.58000	1.96470	1.81980	1.30150	1.27360	.49990	.48840	.45860
1.750	18.492	-.34538	1650.10001	309.72000	1.94750	1.78210	1.30200	1.27410	.49430	.48570	.44730
1.750	20.503	-.33486	1649.39999	309.58000	1.91450	1.74560	1.29010	1.27190	.48160	.47870	.40970
1.750	22.574	-.33640	1649.39999	309.58000	1.87190	1.72760	1.27690	1.25700	.45278	.41150	.39580
1.750	24.628	-.33260	1650.10001	309.72000	1.84378	1.69780	1.25538	1.24220	.42960	.32180	.37710
1.750	25.648	-.32960	1649.39999	309.58000	1.82680	1.68760	1.24380	1.23840	.41830	.28220	.00110
	GRADIENT	-.00080	.00080	.00000	-.00231	-.00943	.00998	.00537	.00166	-.00181	

RUN NO. 333/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.997	-.028	-.88560	1814.89999	233.15000	2.44858	2.17680	1.37470	1.30850	.48400	.46420	.45210
1.997	2.012	-.88610	1814.89999	233.15000	2.45350	2.18400	1.37980	1.31360	.48350	.45990	.44850
1.997	4.076	-.88540	1814.89999	233.15000	2.44980	2.14410	1.39580	1.32358	.49210	.46090	.45790
1.997	6.134	-.88490	1814.10000	233.06000	2.41860	2.13360	1.40930	1.32790	.48168	.45350	.45880
1.997	10.267	-.88620	1814.89999	233.15000	2.35910	2.09250	1.40950	1.33040	.44988	.40720	.42650
1.997	12.302	-.88330	1815.60001	233.24000	2.36970	2.07120	1.41208	1.33370	.44200	.40408	.41720
1.997	13.631	-.88360	1814.10001	233.06000	2.35970	2.06490	1.40640	1.32620	.42860	.38520	.41470
1.997	15.539	-.88060	1814.10001	233.06000	2.34850	2.04920	1.39860	1.31420	.42230	.37810	.39400
1.997	18.621	-.87910	1814.89999	233.15000	2.25630	2.01380	1.39860	1.31370	.41300	.36890	.37360
1.997	20.696	-.87730	1814.89999	233.15000	2.20668	1.95720	1.37900	1.31050	.39950	.35760	.35060
1.997	22.729	-.87080	1814.89999	233.15000	2.15290	1.91610	1.36840	1.30300	.39330	.33920	.35060
1.997	25.274	-.86500	1814.89999	233.15000	2.15290	1.83950	1.35630	1.27950	.36080	.30980	.32880
	GRADIENT	.00003	.00000	.00000	-.00239	-.00798	.00516	.00366	.00199	-.00080	.00142

TABULATED DATA - 04161 (ARC 11-97-87-694)
ARC 11-97-87-094 04161 ORBITER

PARAMETRIC DATA

BETA = .000
MILIRON = .000
ELEVON = .000
EDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.8800 IN.
SCALE = .0300
XMRP = 1076.6800 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

RUN NO. 347/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.250	-1.126	-97880	1919.50000	166.08000	2.76550	2.40940	1.46530	1.37690	.42920	.39660	.37430
2.250	1.863	-97710	1922.39999	166.33000	2.75190	2.39400	1.46590	1.38340	.41400	.38680	.36190
2.250	3.911	-97660	1921.70000	166.27000	2.73820	2.37950	1.47690	1.38360	.43220	.38890	.36230
2.250	5.951	-97680	1925.20000	166.57000	2.71290	2.37520	1.48480	1.38190	.43330	.39410	.36530
2.250	8.013	-97650	1923.89999	166.64000	2.73190	2.36550	1.49340	1.38300	.42780	.39320	.36420
2.250	10.060	-97610	1928.00000	166.82000	2.71270	2.34070	1.49280	1.39340	.40590	.36480	.37560
2.250	12.090	-97720	1929.39999	166.94000	2.68820	2.33650	1.49390	1.39560	.40220	.35460	.36440
2.250	14.167	-97810	1933.70000	167.31000	2.67380	2.30450	1.50560	1.39130	.37460	.33940	.35880
2.250	16.292	-97820	1938.60001	167.74000	2.62860	2.27410	1.5160	1.39620	.36520	.32730	.34780
2.250	18.356	-97630	1937.20000	167.61000	2.59080	2.23390	1.49730	1.38610	.35740	.30260	.33440
2.250	20.377	-97500	1942.99999	168.10000	2.55880	2.19480	1.48830	1.40050	.34840	.30510	.33440
2.250	22.448	-97700	1942.00000	168.04000	2.58390	2.16220	1.48910	1.37240	.34220	.28860	.30790
2.250	24.497	-96800	1942.20000	168.04000	2.45370	2.11380	1.45930	1.12870	-.27520	-.27520	-.27320
2.250	26.543	-96410	1940.70000	167.92000	2.45610	-.03390	-.99980	-.12870	-.27520	-.00078	-.00187
2.250	GRADIENT	09005	54058	.04689	-.00676	-.00741	.00749	.00165	-.00204		

RUN NO. 418/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	-1.118	-04510	1457.70000	85.92000	3.17940	2.81600	1.56870	1.50150	.47990	.40300	.35530
2.499	2.156	-04370	1457.70000	85.49200	3.17320	2.81810	1.59500	1.53270	.47360	.42170	.34280
2.499	4.185	-04340	1457.70000	85.49200	3.15280	2.80740	1.60280	1.52580	.44190	.37320	.31080
2.499	6.219	-04220	1457.70000	85.49200	3.14030	2.78870	1.61110	1.53410	.46060	.35240	.34410
2.499	8.253	-04020	1457.70000	85.49200	3.12960	2.77790	1.62070	1.53540	.44980	.34290	.35980
2.499	10.292	-03900	1458.39999	86.53300	3.11530	2.76150	1.62590	1.54430	.43520	.32910	.34570
2.499	12.332	-03830	1457.70000	85.49200	3.08500	2.72750	1.62590	1.54690	.42030	.31640	.33100
2.499	14.377	-03670	1457.70000	85.49200	3.04760	2.69840	1.63010	1.54490	.39720	.29980	.31640
2.499	16.416	-03500	1457.70000	85.49200	3.06620	2.67680	1.63480	1.54950	.39220	.29530	.30990
2.499	18.459	-03230	1458.39999	85.53300	2.98820	2.63340	1.62860	1.54790	.36130	.27950	.30440
2.499	20.502	-03180	1457.00000	85.45000	2.94700	2.63400	1.58730	1.53070	.36710	.26520	.29040
2.499	22.550	-02930	1458.39999	85.53300	2.85890	2.55510	1.57260	1.53100	.36120	.26130	.27100
2.499	24.597	-02720	1458.70000	85.49200	2.78790	2.43648	1.54920	1.51800	.35920	.25640	.26830
2.499	26.624	-02650	1457.70000	85.49200	2.75370	2.47290	1.54320	1.51830	.35570	.25790	.26830
2.499	GRADIENT	-00042	00800	.00000	-.00654	-.00211	.00347	.00598	-.00934	-.00731	-.01094

TABULATED DATA - 0A161 (ARC 11-97-87-034)

(AE7R5) (02 AUG 76)

ARC 11-97-87-034 0A161 ORBITER

REFERENCE DATA

SREF = 2630.0800 SQ.FT. XMRP = 1075.6800 IN. XQ
LREF = 424.8000 IN. YMRP = 0000.0000 IN. YO
BREF = 956.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
4ILRON = .000 BDFLAP = -7.170

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	.068	.14410	1975.39999	50.68300	4.04640	3.68960	1.78750	1.69310	4.6560	3.2570	30120
3.040	2.090	.14330	1975.39999	50.68300	4.01750	3.59310	1.76930	1.68520	4.2610	3.0680	25070
3.040	4.116	.14420	1975.39999	50.68300	4.02020	3.57880	1.76830	1.68420	4.1120	2.9910	25360
3.040	6.147	.14250	1977.50000	50.73700	4.01340	3.55500	1.80560	1.70400	4.0940	2.9590	25540
3.040	8.173	.13970	1976.80000	50.71900	4.01850	3.54650	1.83710	1.73920	4.2480	2.9890	27440
3.040	10.204	.13850	1976.80000	50.71900	3.99840	3.54270	1.84920	1.74780	4.2530	3.0100	30100
3.040	12.242	.13900	1976.80000	50.71900	3.94190	3.45840	1.86330	1.75820	4.2560	2.9860	24560
3.040	14.269	.13460	1976.80000	50.71900	3.89580	3.41270	1.83060	1.72210	3.6550	2.2050	22750
3.040	16.306	.13460	1976.80000	50.71900	3.85430	3.37090	1.83630	1.73470	3.6670	2.1060	21410
3.040	18.338	.13070	1976.80000	50.71900	3.79880	3.32410	1.83300	1.75280	3.5140	2.2890	22190
3.040	20.373	.13040	1976.80000	50.71900	3.70120	3.24940	1.87040	1.72930	3.2130	2.1270	21970
3.040	22.417	.12840	1976.80000	50.71900	3.65830	3.21560	1.81640	1.75690	3.5420	2.4570	24220
3.040	24.453	.12590	1976.80000	50.71900	3.55950	3.15730	1.78630	1.75580	3.4938	2.3740	23040
3.040	25.483	.12590	1976.80000	50.71900	3.49350	3.10110	1.73920	1.70660	2.9820	1.9310	18960
GRADIENT		.00002	-.00002	.00000	-.00657	-.00761	.00020	.00101	-.01344	-.00657	-.01176

RUN NO. 428/ 0 RUN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	-1.170	.10220	2669.20001	35.05800	4.89440	4.29390	2.03810	1.89680	5.2920	3.4250	30220
3.499	1.851	.10040	2669.89999	35.05700	4.89840	4.31260	2.04520	1.91890	5.0000	3.3830	28780
3.499	3.875	.09980	2669.20001	35.05800	4.89290	4.27190	2.04070	1.90440	4.8080	3.3440	27890
3.499	5.898	.09930	2669.89999	35.06700	4.90140	4.27620	2.07290	1.93170	4.7960	3.3840	26800
3.499	7.920	.09930	2670.70001	35.07600	4.84900	4.20820	2.05480	1.98300	4.2710	2.7550	23500
3.499	9.949	.09920	2669.20001	35.02800	4.79490	4.18030	2.04630	1.90680	4.0110	2.5450	22930
3.499	11.977	.09730	2670.70001	35.07600	4.78250	4.15170	2.09760	1.96540	4.2710	2.7060	24540
3.499	14.005	.09250	2669.20001	35.05800	4.71780	4.07070	2.07360	1.93700	3.6970	2.2810	21800
3.499	16.032	.09120	2670.70001	35.07600	4.64120	3.99370	2.05980	1.93350	3.4730	2.2100	21080
3.499	18.064	.09100	2669.50000	35.04900	4.59270	3.93140	2.09880	1.98060	3.2890	2.4250	23240
3.499	20.103	.08880	2670.70001	35.07600	4.50820	3.89160	2.06240	1.94610	3.3410	2.2300	20780
3.499	22.134	.08650	2669.89999	35.06700	4.44210	3.84680	2.06030	1.97950	3.1600	2.4650	23850
3.499	24.170	.08370	2669.89999	35.06700	4.31440	3.77930	2.02250	1.95680	3.4640	2.2830	22530
3.499	25.188	.08260	2669.89999	35.06700	4.24830	3.74810	1.99470	1.93910	3.2720	2.2110	21890
GRADIENT		.00059	-.00006	-.00000	-.00040	-.00544	.00064	.00188	-.01197	-.00200	-.00576

(AETRI6) (02 AUG 76)

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALFON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 32/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.594	.088	2.24440	2578.00000	1.03050	1.04610	.97350	.98410	.95080	.94650	.95350
.597	2.138	2.28050	2593.60001	1.03290	1.04940	.97700	.98750	.95130	.94700	.95510
.597	4.128	2.29800	2593.60001	1.03500	1.05180	.98030	.99020	.94990	.94610	.95360
.595	6.276	2.30490	2580.10281	1.03400	1.04960	.98120	.99180	.95070	.94620	.95510
.595	8.369	2.31160	2590.10001	1.03220	1.04750	.98230	.99280	.95060	.94760	.95510
.594	10.474	2.32090	2580.79999	1.02690	1.04280	.98040	.98900	.94860	.94610	.95490
.595	12.626	2.32090	2581.50000	1.02310	1.03670	.97810	.98600	.94800	.94570	.95490
.597	14.753	2.29150	2582.20001	1.01500	1.02920	.97650	.98480	.94600	.94280	.95060
.597	16.893	2.29250	2582.20001	1.01500	1.02920	.97650	.98480	.94600	.94280	.95060
.597	19.008	2.27740	2581.50000	1.00720	1.01870	.96940	.97730	.94330	.93750	.94770
.595	21.175	2.28580	2581.50000	.99400	1.00860	.96710	.97540	.93380	.91810	.92680
.596	23.175	2.28550	2582.20001	.98850	.98200	.96750	.97500	.92910	.92140	.92100
.586	25.277	2.31508	2582.20001	.94980	.96750	.93630	.95970	.91950	.92250	.91370
.5971	26.145	2.34230	2582.20001	.94060	.95910	.93320	.95960	.91310	.91300	.91440
GRADIENT		.01304	5.79217	.00109	.00139	.00165	.00148	.00022	.00010	.00002

RUN NO. 374 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.698	.081	2.26230	2356.60001	1.04780	1.07100	.98480	.97670	.93160	.92480	.93800
.699	2.134	2.29360	2312.10001	1.05090	1.07430	.97120	.98360	.93170	.92560	.93690
.698	4.209	2.31000	2311.39999	1.05140	1.07490	.97460	.98790	.93120	.92560	.93800
.697	6.295	2.31560	2310.70001	1.05100	1.07330	.97820	.99180	.93220	.92740	.93800
.699	8.411	2.31650	2311.39999	1.04990	1.07030	.97880	.99270	.93210	.92910	.94000
.697	10.528	2.33410	2310.70001	1.04390	1.06520	.97280	.98520	.92900	.92660	.93710
.698	12.671	2.30880	2310.70001	1.03930	1.05660	.97620	.98730	.92410	.92380	.93380
.696	14.812	2.30570	2310.70001	1.02620	1.04330	.97070	.98310	.92170	.91960	.92980
.695	16.954	2.30570	2310.70001	1.01460	1.03340	.96570	.97780	.91630	.90670	.92980
.683	19.083	2.29340	2310.70001	.99760	1.01700	.95560	.97780	.90710	.89780	.92950
.684	21.188	2.28540	2310.70001	.98020	1.00130	.94560	.97030	.90110	.89650	.92950
.684	23.283	2.27410	2310.70001	.96850	.98870	.93190	.96120	.89850	.89130	.91080
.696	25.304	2.26600	2309.89999	.94230	.95800	.92090	.95060	.87480	.86980	.89180
.696	27.222	2.27240	2309.89999	.92960	.95770	.91670	.94690	.85560	.85456	.87570
GRADIENT		.01195	-10.93241	.00087	.00094	.00237	.00271	.00010	.00019	.00002

ARC 11-97-87-094 0A161 ORBITER

(02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 926.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA =
ALPHA =
2.000 ELEVON = .000
.000 BOFLAP = -7.170

RUN NO. 404 01 RNAL = 4.23 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	P55/P	P56/P	P57/P
.799	.046	2.27530	2198.20001	1.07320	1.10130	.95160	.96790	.90360	.90110	.91300
.796	2.130	2.28420	2193.20004	1.07650	1.10740	.95810	.97910	.90730	.90360	.91670
.799	4.224	2.30660	2198.20001	1.07770	1.10660	.96950	.98460	.90450	.90450	.91690
.798	6.336	2.30960	2198.20001	1.08190	1.10660	.97670	.99310	.90740	.90450	.91680
.797	8.455	2.31030	2198.20001	1.07610	1.10240	.97890	.99620	.90440	.90360	.91760
.797	10.589	2.31590	2198.20001	1.07050	1.09570	.98000	.99910	.90380	.90380	.91890
.796	12.722	2.31660	2198.89999	1.06360	1.08440	.97540	.99750	.89560	.89560	.90990
.795	14.872	2.30930	2198.89999	1.04890	1.07230	.97440	.99810	.89070	.88790	.89680
.797	17.050	2.32970	2198.20001	1.03430	1.05980	.97030	.99590	.88420	.88420	.89530
.799	19.170	2.31460	2198.89999	1.01570	1.04350	.96360	.99140	.87980	.88290	.88400
.795	21.276	2.30770	2198.89999	.99490	1.01740	.94720	.97400	.86390	.88020	.88660
.796	23.367	2.31870	2198.60001	.97090	.99750	.93240	.96720	.84190	.85660	.86240
.795	25.373	2.31740	2198.89999	.93390	.97040	.91680	.94360	.80320	.81100	.81300
.798	26.501	2.35320	2198.89999	.93390	.96340	.91160	.94880	.80200	.79260	.80870
GRADIENT		.00747	.00002	.00109	.00127	.00428	.00400	.00648	.00081	.00093

RUN NO. 474 01 RNAL = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	P55/P	P56/P	P57/P
.847	.058	2.25540	2155.10001	1.09100	1.12300	.95060	.96920	.88890	.88680	.89950
.850	2.141	2.26200	2155.50000	1.09740	1.13000	.96320	.97930	.89050	.88960	.90280
.848	4.241	2.30630	2155.79999	1.09600	1.12570	.97010	.98700	.89220	.88920	.90210
.845	6.353	2.31230	2155.50000	1.09720	1.12500	.97780	.99380	.88620	.88690	.90170
.847	8.473	2.31270	2155.79999	1.09320	1.12360	.98480	.99870	.88670	.88930	.90150
.847	10.589	2.32410	2155.50000	1.08700	1.11560	.98630	.99760	.88640	.88640	.89980
.845	12.750	2.31460	2157.20001	1.07990	1.10550	.98510	.99640	.88620	.87730	.88220
.847	14.901	2.31980	2155.50000	1.06500	1.09240	.98210	.99290	.87130	.86450	.88470
.849	17.081	2.32770	2157.20001	1.04960	1.07690	.97540	.98260	.85910	.86130	.87250
.845	19.219	2.32000	2158.60001	1.02540	1.05270	.96260	.96260	.84470	.84350	.85700
.846	21.320	2.31050	2157.20001	1.00390	1.03160	.95160	.96600	.83750	.83950	.85050
.844	23.400	2.31750	2157.89999	.97710	1.00360	.93510	.97140	.79660	.79830	.80990
.844	25.423	2.33110	2157.20001	.95370	.98500	.92510	.96520	.78330	.78110	.79230
.847	26.501	2.36480	2160.00000	.93690	.97170	.94330	.96670	.76580	.75010	.76820
GRADIENT		.01192	.16663	.00119	.00064	.00486	.00449	.00031	.00057	.00062

(AETR16) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 + ARC 11-97-87-094

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.9600 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .1300

RUN NO. 501 0 RVAL = 4.2% GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.901	.047	2.28350	2126.79999	1256.60001	1.11970	1.15540	.96990	.97560	.87180	.86890	.88040
.902	.158	2.28750	2125.79999	1254.50000	1.12500	1.16010	.97600	.99090	.87700	.87440	.88520
.903	.4260	2.30720	2126.79999	1258.80000	1.12490	1.15940	.98500	.99960	.87440	.87460	.89000
.900	.6377	2.31210	2126.79999	1257.30000	1.12540	1.15930	.99510	1.01000	.87630	.87450	.89890
.899	.8494	2.31310	2126.79999	1259.50000	1.12070	1.15390	.99940	1.01470	.87620	.87120	.89580
.893	10.626	2.32430	2127.50000	1259.70000	1.11460	1.14410	1.00260	1.02360	.86790	.86740	.88278
.898	12.790	2.29630	2126.79999	1260.20000	1.10760	1.13160	1.00080	1.02220	.86590	.84590	.86820
.897	14.944	2.32290	2127.98000	1261.60001	1.08840	1.11780	.99690	1.02230	.84670	.83780	.85458
.898	17.129	2.33330	2126.79999	1260.99999	1.07180	1.07560	.97980	1.01890	.83330	.82530	.83630
.896	19.271	2.31660	2126.79999	1262.39999	1.04920	1.02560	.96740	1.00240	.82330	.81460	.82980
.899	21.382	2.31240	2127.50000	1263.10001	1.00130	1.02790	.95121	.99210	.78890	.78040	.77650
.899	25.479	2.32090	2127.50000	1269.50000	1.00120	1.02790	.93098	.97640	.75489	.73070	.72879
.896	25.502	2.32810	2127.50000	1263.10001	.96580	1.01200	.91980	.96610	.72260	.71170	.71130
.896	25.446	2.38450	2126.10001	1262.39999	.95128	.95090	.91980	.96610	.72260	.71170	.71130
GRADIENT		.00560	-.00602	.52110	.00124	.00095	.00596	.00570	.00062	.00135	.00228

RUN NO. 581 0 RVAL = 4.2% GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.951	.071	2.26340	2085.39999	1166.30000	1.15860	1.19560	.98320	.99650	.82790	.81520	.83770
.949	.2173	2.29210	2083.60001	1167.00000	1.15950	1.19330	.99710	1.00970	.84200	.83470	.84670
.949	.4286	2.31080	2084.29999	1167.00000	1.16360	1.19970	1.01070	1.02160	.83240	.82500	.84290
.949	.6417	2.32440	2085.70001	1169.39999	1.16260	1.19560	1.01890	1.03320	.83250	.82810	.84550
.949	.8457	2.32730	2085.70001	1167.70000	1.16260	1.19620	1.02430	1.04260	.83610	.82980	.85130
.948	10.698	2.32550	2085.00000	1169.10001	1.14960	1.18170	1.02660	1.04590	.81970	.81460	.84160
.949	12.867	2.29530	2085.70001	1168.39999	1.13900	1.16710	1.02580	1.04610	.79650	.79450	.80830
.951	15.027	2.32430	2085.39999	1166.30000	1.12450	1.15380	1.02360	1.04890	.79550	.79470	.81400
.948	17.288	2.35760	2085.70001	1169.10001	1.12200	1.13340	1.01350	1.04130	.77320	.76260	.78540
.946	19.383	2.34290	2085.70001	1171.83339	1.08240	1.11040	1.00200	1.03430	.75370	.75680	.78930
.950	21.492	2.31320	2085.39999	1167.00000	1.05560	1.08510	.99010	1.02630	.74050	.73780	.76910
.954	23.555	2.32290	2088.60001	1167.00000	1.02790	1.06010	.97240	1.01560	.71350	.7130	.74790
.952	25.630	2.35380	2087.89999	1169.50000	.99790	1.03620	.95390	1.00220	.69060	.65760	.65250
.948	26.557	2.41010	2085.70001	1169.80000	.97120	1.01510	.93420	.99010	.67180	.64950	.64450
GRADIENT		.01120	-.49749	.18993	.00119	.00097	.00552	.00570	.00105	.00137	.00123

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OF POOR QUALITY

(AETR16) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-82-084 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
LREF = 479.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6811 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

PARAMETRIC DATA

BETA = 2.008 ELEVON = .000
AIRLOW = .008 BOFLAP = -7.170

RUN NO. 61/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.979	.050	2.28580	2073.70801	1122.00000	1.18450	1.22480	1.00600	1.01900	.78480	.77130	.76620
.979	2.172	2.28580	2073.70901	1122.70000	1.18950	1.22990	1.00200	1.03290	.79070	.77950	.76650
.930	4.291	2.29910	2077.29999	1122.70000	1.19230	1.23110	1.03320	1.04600	.78210	.77240	.76710
.979	6.424	2.37030	2075.10001	1122.70000	1.19150	1.22660	1.04230	1.05670	.78560	.77390	.76860
.979	8.578	2.30640	2074.39999	1123.39999	1.18540	1.21970	1.04630	1.06860	.77900	.76530	.75170
.979	10.733	2.30980	2077.29999	1124.00001	1.17750	1.20950	1.04880	1.06860	.77440	.75800	.74740
.951	12.907	2.29380	2075.79999	1120.60031	1.17060	1.19890	1.05150	1.07030	.76800	.75200	.73860
.979	14.709	2.18390	2074.39999	1123.39999	1.15140	1.17810	1.04650	1.06900	.75500	.73970	.72500
.980	15.058	2.34370	2076.50809	1122.70000	1.14940	1.17980	1.04470	1.06830	.75230	.74178	.72900
.979	17.274	2.33400	2076.50000	1123.39999	1.12990	1.16020	1.03650	1.05440	.73860	.72120	.70350
.978	19.426	2.32120	2075.79999	1124.89999	1.10600	1.13520	1.02190	1.03330	.71980	.70350	.68200
.979	21.580	2.34780	2076.50800	1124.20000	1.07890	1.10910	1.00770	1.04830	.72720	.70940	.68200
.980	23.642	2.32100	2076.00000	1124.10001	1.04930	1.08430	.98830	1.03300	.68400	.65980	.62530
.978	25.696	2.33680	2075.79999	1124.89999	1.04930	1.04750	.96400	1.01170	.65450	.64080	.60540
.979	26.646	2.40580	2076.50000	1123.39999	.92430	1.03760	.93130	1.00490	.60960	.60960	.56021
	GRADIENT	.00314	.84874	.16514	.00182	.00149	.00641	.00637	-.00084		

RUN NO. 68/ 0 RV/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.052	.079	2.28230	2041.89999	1014.20000	1.28050	1.32390	1.08290	1.09660	.72620	.70440	.72650
1.073	2.188	2.29280	2044.05000	1013.50000	1.28080	1.32390	1.08870	1.10940	.72360	.70780	.72540
1.079	4.308	2.30720	2040.50000	1014.90000	1.28270	1.32310	1.11160	1.12150	.72620	.70830	.72320
1.049	6.442	2.32200	2039.89999	1016.30000	1.27970	1.31510	1.11890	1.13180	.71890	.70640	.72150
1.031	8.601	2.32110	2043.30000	1015.60000	1.27350	1.30950	1.12530	1.14070	.72150	.70750	.71530
1.050	10.757	2.32840	2040.50000	1015.60000	1.26430	1.29880	1.12620	1.14510	.71080	.69530	.70540
1.051	12.959	2.29680	2041.89999	1015.60000	1.25100	1.28290	1.12530	1.14660	.70630	.67840	.69100
1.045	15.103	2.34200	2041.20000	1015.50000	1.23380	1.26700	1.10850	1.13250	.68480	.65430	.66620
1.080	17.331	2.34180	2040.50000	1015.50000	1.20650	1.25700	1.10880	1.12930	.67720	.64820	.65820
1.049	19.502	2.33390	2043.30000	1019.10000	1.17830	1.20970	1.08260	1.11710	.67860	.64910	.62320
1.049	21.659	2.33370	2041.20000	1019.10000	1.14860	1.18210	1.06490	1.10720	.65390	.61470	.62660
1.051	23.723	2.34310	2045.39999	1019.30000	1.12510	1.15830	1.05170	1.10660	.64460	.59350	.60880
1.067	25.786	2.35680	2042.60001	1018.60000	1.09450	1.13100	1.02770	1.07630	.62760	.58648	.58390
1.052	26.758	2.41540	2043.30000	1014.20000	1.06720	1.11190	1.01280	1.05010	.61470	.56360	.59350
	GRADIENT	.00588	.33217	.16595	.00052	.00062	.00679	.00569	.00000		

(AE7R161 (02 AUG 76)

PARAMETRIC DATA

BETA = 2.00C ELEVON = .000F
AHLRON = .000F BDPLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2580.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0080 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0080 IN. ZO
SCALE = .0380

RUN NO. 71/ 0 RWL = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.099	.051	2.27180	2011.50000	1.32410	1.36840	1.11760	1.13280	.71740	.68550	.71140
1.100	2.177	2.30070	2015.00000	1.32400	1.37140	1.13120	1.14050	.71699	.69700	.71210
1.101	4.302	2.29940	2015.00000	1.32600	1.36890	1.14450	1.15240	.71450	.69590	.70840
1.098	6.436	2.30950	2012.89999	1.32190	1.36040	1.15530	1.16380	.71170	.69660	.70240
1.097	8.597	2.31860	2019.00000	1.31480	1.35000	1.15950	1.17170	.70890	.69130	.69500
1.097	10.752	2.31800	2015.00000	1.30000	1.34490	1.15790	1.17530	.70560	.67850	.69390
1.098	12.932	2.29930	2014.30000	1.29620	1.31710	1.15370	1.17230	.69750	.66490	.67750
1.100	15.118	2.34400	2016.39999	1.26640	1.23780	1.14370	1.16650	.68620	.64190	.65630
1.099	17.340	2.34110	2015.00000	1.23940	1.26680	1.12630	1.15050	.67510	.62380	.62600
1.100	19.502	2.32330	2017.80000	1.21330	1.24180	1.10110	1.12750	.66810	.61130	.64210
1.101	21.665	2.32240	2017.10001	1.18160	1.20830	1.04198	1.07540	.65230	.58810	.59870
1.099	23.717	2.32930	2017.85000	1.14770	1.17820	.99970	1.05030	.64640	.57120	.59060
1.098	25.801	2.35580	2017.10001	1.11100	1.14930	.97760	1.04530	.61050	.54140	.54780
1.099	26.765	2.42250	2015.70000	1.09240	1.13550	.96410	1.04510	.61390	.54120	.58220
GRADIENT		.00555	.82376	.00115	.00012	.00633	.00461	-.00066	.00009	-.00074

RUN NO. 78/ 0 RWL = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.149	.071	2.27590	2004.39999	1.35050	1.40300	1.14640	1.16630	.68690	.67450	.68960
1.151	2.175	2.30660	2002.30000	1.35130	1.40880	1.16470	1.17430	.68940	.67610	.68940
1.150	4.291	2.31090	2005.00000	1.35430	1.40460	1.18150	1.18370	.68670	.68670	.68190
1.147	6.426	2.31480	2005.10001	1.34430	1.39220	1.18830	1.18890	.68170	.68630	.68630
1.148	8.591	2.32190	2004.39999	1.34430	1.37910	1.18860	1.18960	.68600	.68600	.68600
1.147	10.754	2.31430	2004.39999	1.32570	1.36360	1.18860	1.19080	.68610	.65680	.66920
1.148	12.932	2.29340	2004.39999	1.32530	1.34940	1.18420	1.18380	.67930	.64000	.65750
1.150	15.107	2.34420	2004.39999	1.30390	1.33190	1.17210	1.15790	.66570	.62520	.63110
1.145	17.325	2.34460	2001.60001	1.28370	1.30550	1.10410	1.12360	.64310	.61310	.62130
1.150	19.493	2.33280	2003.00000	1.25640	1.28040	1.07270	1.10460	.62920	.58550	.58550
1.143	21.626	2.32420	2003.00000	1.22070	1.24400	1.03660	1.08550	.62520	.54590	.54590
1.152	23.714	2.33050	2005.80000	1.18980	1.21480	1.01070	1.07580	.61320	.57110	.57110
1.146	25.801	2.33380	2003.70000	1.15050	1.18480	.97270	1.06820	.59460	.53660	.53660
1.146	26.765	2.41590	2003.00000	1.13110	1.16480	.96480	1.06580	.53390	.51390	.51390
GRADIENT		.00829	-.33115	.00095	.00038	.00832	.00412	.00085	.00283	.00155

TABULATED DATA - CA161 (ARC 11-97-87-094)
ARC 11-97-87-094 ORANGE ORBITER

PAGE 250
(AE7R161 (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XC.
LREF = 474.8000 IN. YMRP = .0000 IN. YC.
BREF = 938.6800 IN. ZMRP = 375.0000 IN. ZC.
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 81/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.201	.050	2.29310	2005.10001	626.19800	1.41780	1.46410	1.17310	1.18460	.68170	.65360	.67200
1.200	2.162	2.29310	2007.89999	828.29000	1.40950	1.46400	1.19120	1.18390	.68500	.65680	.66240
1.199	4.274	2.29660	2005.80100	828.27000	1.40620	1.45660	1.20160	1.19730	.67890	.65650	.65350
1.197	6.420	2.30700	2007.89999	831.77000	1.40250	1.44610	1.21280	1.21070	.68510	.66730	.65350
1.196	8.583	2.31680	2007.89999	830.58000	1.39980	1.43760	1.19720	1.18800	.67860	.65380	.64670
1.195	10.748	2.32620	2006.90000	832.45000	1.38380	1.42310	1.18320	1.15230	.66870	.62700	.63970
1.197	12.928	2.29580	2011.50000	833.19000	1.38130	1.40350	1.11240	1.13440	.65300	.60930	.62040
1.196	15.098	2.33360	2006.50000	831.75000	1.36550	1.38530	1.10890	1.14450	.64390	.59210	.59190
1.195	17.320	2.33940	2007.89999	832.47000	1.32510	1.35610	1.08540	1.13020	.63260	.56660	.57650
1.194	19.481	2.32430	2009.39999	834.57000	1.29570	1.32480	1.05820	1.11270	.62570	.54510	.56430
1.189	21.601	2.30580	2005.80000	838.72000	1.26160	1.29540	1.04140	1.10770	.61300	.56520	.56430
1.194	23.709	2.32890	2010.10001	838.75000	1.22980	1.27210	1.00860	1.03580	.61810	.55300	.56180
1.188	25.797	2.35140	2010.10001	841.54000	1.20180	1.24550	.98050	1.08180	.60320	.50880	.50900
1.194	26.822	2.35710	2007.20000	839.55000	1.19620	1.23260	.97270	1.07170	.59800	.49840	.49910
	GRADIENT	.00083	.15675	.48245	-.00275	-.00178	.00675	-.00301	-.00056	.00059	-.00438

RUN NO. 88/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.297	.056	2.28890	2005.10001	726.66000	1.50980	1.54630	1.21490	1.20900	.64950	.60710	.63660
1.296	2.147	2.32100	2003.70000	724.46000	1.49440	1.54720	1.21060	1.19860	.64840	.61240	.62450
1.295	4.258	2.32850	2003.70000	726.68000	1.49230	1.53840	1.16550	1.17800	.64730	.61930	.61630
1.296	6.380	2.30360	2004.39999	727.40000	1.48670	1.52230	1.15640	1.17910	.65200	.61670	.60730
1.296	8.552	2.31400	2003.70000	727.41000	1.47910	1.51510	1.15280	1.18140	.64470	.62500	.60530
1.294	10.717	2.31550	2004.39999	728.83000	1.46010	1.49450	1.14020	1.17680	.64010	.61760	.59110
1.294	12.896	2.30660	2004.39999	728.83000	1.46180	1.47720	1.12710	1.16930	.62940	.58770	.56850
1.294	15.061	2.35860	2004.70000	728.83000	1.44010	1.45380	1.11010	1.15940	.61730	.56190	.54400
1.294	17.276	2.35860	2004.70000	728.82000	1.40880	1.43280	1.09340	1.15410	.61060	.52590	.52930
1.293	19.434	2.32980	2004.39999	730.28000	1.37730	1.40460	1.06840	1.14960	.60200	.50850	.51660
1.291	21.565	2.32000	2005.10001	733.01000	1.34750	1.38110	1.03980	1.14810	.59580	.50390	.50800
1.295	23.673	2.32350	2005.80000	728.64000	1.31840	1.35820	1.01980	1.13650	.59870	.51140	.51510
1.292	25.779	2.39450	2006.50000	732.33000	1.28440	1.32810	1.00820	1.11850	.57780	.47600	.47140
1.293	26.812	2.38020	2006.50000	731.63000	1.26860	1.31290	.98300	1.10020	.56740	.45370	.46400
	GRADIENT	.00996	-.33253	.03642	-.00416	-.00188	-.01153	-.00738	.00043	.00195	-.00483

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(AETR18) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITERY

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XDRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YDRP = .0000 IN. YQ
BREF = 936.6800 IN. ZDRP = 375.0000 IN. ZQ
SCALE = .0300

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.401	.030	2.25650	2029.89999	637.09000	1.62060	1.64290	1.15330	1.18370	.62260	.57920	.61230
1.401	2.122	2.27530	2029.89999	637.09000	1.60360	1.64260	1.15530	1.19430	.62370	.57870	.61450
1.400	4.236	2.34330	2029.89999	637.82000	1.59750	1.62930	1.17760	1.20680	.62590	.57690	.60040
1.400	6.364	2.33140	2029.89999	637.82000	1.53420	1.61880	1.18330	1.21400	.62930	.57870	.58290
1.399	8.519	2.31730	2030.60001	639.28000	1.58030	1.60090	1.17080	1.21450	.62870	.58930	.57310
1.397	10.672	2.31590	2031.30000	641.48000	1.56020	1.57300	1.15640	1.20710	.61190	.61350	.55510
1.399	12.843	2.30140	2032.60001	639.28000	1.55610	1.56390	1.15150	1.20770	.60400	.61240	.53940
1.398	15.006	2.32310	2031.30000	640.01000	1.54910	1.53630	1.13490	1.20490	.60130	.56720	.52590
1.399	17.225	2.34430	2029.89999	638.58000	1.50010	1.51830	1.11030	1.20290	.59080	.54630	.51610
1.401	19.383	2.31560	2050.39999	643.33000	1.47780	1.48710	1.09050	1.19300	.58998	.50570	.49850
1.397	21.520	2.29020	2091.79999	646.99000	1.44260	1.47090	1.06780	1.17510	.59040	.48710	.49810
1.399	23.636	2.33630	2049.00000	644.83000	1.41650	1.44630	1.05570	1.16320	.58980	.51120	.47360
1.399	25.743	2.33880	2049.00000	644.83000	1.37840	1.42110	1.03360	1.15280	.56220	.45610	.44640
1.395	26.784	2.31700	2049.00000	646.41000	1.36020	1.40260	1.01940	1.14360	.55300	.43040	.43650
	GRADIENT	.02066	.00000	.17386	-.00549	-.00324	.00578	.00549	.00076	-.00053	-.00264

RUN NO. 324 0 RUNAL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.034	1.52120	1536.20000	385.67000	1.76010	1.81190	1.18320	1.22670	.58200	.55990	.57230
1.556	2.023	1.53170	1536.20000	385.67000	1.75220	1.80180	1.18880	1.23650	.57950	.55790	.58890
1.556	4.100	1.52240	1536.20000	385.67000	1.75300	1.79010	1.19420	1.23950	.58330	.55930	.58930
1.556	6.172	1.52130	1536.89999	385.85000	1.74370	1.77320	1.20030	1.25000	.58850	.56140	.56970
1.556	8.243	1.52190	1536.89999	385.85000	1.74070	1.75630	1.19730	1.25190	.57560	.57380	.56550
1.556	10.308	1.52240	1536.20000	385.67000	1.72340	1.73920	1.19510	1.25250	.59200	.57400	.54598
1.556	12.355	1.52250	1536.89999	385.85000	1.70010	1.72390	1.19690	1.25610	.54790	.50330	.52220
1.556	14.431	1.52840	1536.89999	385.85000	1.67770	1.70850	1.17820	1.25880	.53870	.49270	.50880
1.556	16.574	1.53150	1536.89999	385.85000	1.65420	1.69130	1.17200	1.25400	.53498	.46570	.47650
1.556	18.659	1.53340	1536.89999	385.85000	1.63670	1.67200	1.15060	1.25000	.52460	.46140	.46560
1.556	20.700	1.54050	1537.60001	386.03000	1.61380	1.65690	1.12760	1.23880	.52080	.45460	.44908
1.556	22.789	1.54570	1542.60001	387.27000	1.57620	1.63190	1.11700	1.22120	.49340	.43030	.44908
1.556	24.854	1.54930	1544.70000	387.81000	1.55130	1.63190	1.10010	1.19850	.46710	.42780	.43650
1.556	26.982	1.55150	1543.30000	387.45000	1.53530	1.58830	1.09060	1.19280	.45790	.41720	.43058
	GRADIENT	.00026	-.00001	-.00000	-.00173	-.00536	.00278	.00316	.00033	-.00014	.00393

TABULATED DATA - QAI61 (ARC 11-97-87-094)

ARC 11-97-87-094 QAI61 ORBITER

(AE7R161 (02 AUG 76)

REFERENCE DATA

SPEC = 2699.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0380

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AYLRON = .000 BOFLAP = -7.170

RUN NO. 327/ 0 RWL = 3.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	0.019	1.70660	1647.89999	309.32000	1.98130	2.05840	1.22440	1.32550	.55310	.53820	.51930
1.750	1.984	1.69880	1643.39999	309.58000	1.98730	2.04330	1.23750	1.32600	.55050	.53040	.52130
1.750	4.028	1.70770	1649.39999	309.58000	1.98930	2.03830	1.24620	1.32620	.55200	.52930	.53080
1.750	6.082	1.70350	1643.39999	309.58000	1.97960	2.02950	1.25420	1.34310	.55780	.52230	.53660
1.750	8.114	1.71830	1643.39999	309.58000	1.96870	2.00750	1.25640	1.34210	.54460	.54570	.53260
1.750	10.153	1.70540	1650.10001	309.72000	1.94350	1.98350	1.25890	1.34610	.54730	.53730	.53100
1.750	12.175	1.70320	1649.39999	309.58000	1.93010	1.96430	1.24620	1.35750	.51810	.49290	.49520
1.750	16.357	1.71230	1649.39999	309.58000	1.86900	1.91580	1.20050	1.35710	.49910	.48530	.45780
1.750	18.461	1.71570	1650.10001	309.72000	1.84600	1.89330	1.20050	1.35950	.49600	.48740	.44960
1.750	20.482	1.71980	1650.10001	309.72000	1.80180	1.87300	1.18290	1.35150	.49120	.47800	.44030
1.750	22.560	1.72550	1650.10001	309.72000	1.77400	1.83950	1.17090	1.34420	.48240	.41830	.42850
1.750	24.622	1.72910	1649.39999	309.58000	1.72330	1.80710	1.17200	1.32700	.44560	.40500	.41750
1.750	25.647	1.73320	1648.62001	309.45000	1.59820	1.79070	1.17080	1.32430	.43210	.38850	.42340
GRADIENT		.00330	.36810	.05380	.00197	-.00694	.00539	.00241	-.00027	-.00393	.00285

RUN NO. 334/ 0 RWL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.997	.014	1.20880	1816.30000	233.33000	2.26530	2.29630	1.28370	1.40530	.47820	.47020	.43140
1.997	2.037	1.20840	1816.30000	233.33000	2.26070	2.28720	1.29050	1.41290	.46940	.45420	.43290
1.997	4.103	1.20720	1816.30000	233.33000	2.26858	2.26320	1.29730	1.41820	.47450	.43190	.43800
1.997	5.146	1.20710	1817.00000	233.33000	2.26310	2.26340	1.29990	1.42000	.47730	.43400	.45000
1.997	8.228	1.20850	1817.70000	233.51000	2.24010	2.25860	1.30320	1.42480	.45840	.41280	.43330
1.997	10.267	1.20960	1816.30000	233.33000	2.28530	2.20870	1.29580	1.43270	.44940	.41360	.42200
1.997	12.322	1.21400	1817.00000	233.51000	2.28590	2.19900	1.28810	1.42780	.42530	.37970	.40490
1.997	14.336	1.21420	1817.00000	233.42000	2.15680	2.16980	1.28320	1.42150	.41600	.37570	.41680
1.997	15.541	1.22150	1817.00000	233.42000	2.12150	2.14870	1.27780	1.41920	.41880	.36850	.39370
1.997	18.628	1.40080	1817.00000	233.42000	2.08350	2.11070	1.26950	1.41090	.40540	.35670	.37880
1.997	20.647	1.40350	1816.30000	233.33000	2.05230	2.08410	1.25300	1.42120	.39380	.33440	.34200
1.997	22.734	1.41030	1816.30000	233.33000	1.98560	2.05450	1.22710	1.42650	.37710	.32760	.34740
1.997	24.793	1.41460	1816.30000	233.33000	1.91920	2.00430	1.20460	1.40460	.37290	.31890	.32880
1.997	25.025	1.41520	1816.30000	233.33000	1.91740	1.99540	1.19800	1.40310	.37520	.32880	.33560
GRADIENT		-.00039	.00002	.00000	.00079	-.00881	.00333	.00315	-.00106	-.00937	.00162

(AE7R18) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITTER

REFERENCE DATA

SREF = 2693.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 473.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 3464 0 RNV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00.

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.249	1.102	1.07220	2070.20001	179.27000	2.57240	2.60300	1.34980	1.45160	4.3110	4.2620	37080
2.249	1.873	1.07130	2070.20001	179.27000	2.56678	2.60620	1.35560	1.47130	4.2380	4.2780	37140
2.249	3.927	1.07630	2070.89999	179.33500	2.55130	2.58380	1.36860	1.43140	4.1908	4.1280	36650
2.249	5.986	1.07910	2070.89999	179.33500	2.54310	2.56480	1.38280	1.48960	4.3360	3.8220	38710
2.249	8.039	1.08380	2070.20001	179.27000	2.53700	2.54880	1.39230	1.50300	4.4100	3.8270	38170
2.249	10.091	1.07160	2070.20001	179.27000	2.51660	2.53430	1.39790	1.50380	4.0660	3.5320	36800
2.249	12.128	1.08260	2070.89999	179.33500	2.49680	2.50280	1.40160	1.49650	3.9810	3.4260	35250
2.249	14.207	1.09580	2070.20001	179.27000	2.47260	2.48480	1.40220	1.49810	3.7970	3.2730	35820
2.249	16.335	1.07460	2070.20001	179.27000	2.45550	2.43760	1.39320	1.49700	3.6410	3.1460	35020
2.249	18.429	1.08210	2070.20001	179.27000	2.43830	2.33510	1.35170	1.49810	3.5160	2.9720	31800
2.249	20.501	1.09650	2070.20001	179.27000	2.42710	2.28290	1.35170	1.48920	3.3920	2.7790	30850
2.249	22.559	1.09100	2070.20001	179.27000	2.42750	2.25730	1.31930	1.49110	3.3380	2.7350	30120
2.249	25.577	1.09100	2070.20001	179.27000	2.42750	2.25730	1.31930	1.49110	3.3380	2.7350	30120
GRADIENT					-.00525	-.00479	.00469	.00738	-.00300	-.00356	-.00108

RUN NO. 4194 0 RNV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	1.118	2.10010	1461.89999	85.74000	2.90990	3.07570	1.42130	1.63280	4.8430	3.8480	34740
2.499	2.152	2.08650	1464.00000	85.86500	2.91740	3.10350	1.44330	1.66660	4.9010	4.0330	35370
2.499	4.186	2.08010	1463.30000	85.82300	2.91170	3.07290	1.45260	1.68000	4.8130	3.6970	35328
2.499	6.220	2.07150	1463.30000	85.82300	2.89030	3.04330	1.45720	1.68670	4.8120	3.6330	35120
2.499	8.256	2.06930	1463.30000	85.82300	2.88200	3.02470	1.46750	1.70540	4.8740	3.6350	35540
2.499	10.295	2.06410	1463.30000	85.82300	2.86400	2.99060	1.45060	1.69070	4.4050	3.2460	33290
2.499	12.339	2.05930	1463.30000	85.82300	2.83690	2.97540	1.45800	1.72260	4.3680	3.2930	33540
2.499	14.379	2.05650	1463.30000	85.82300	2.79890	2.94370	1.44600	1.70980	4.0970	2.9800	32280
2.499	16.426	2.05580	1463.30000	85.94800	2.76100	2.90980	1.44020	1.70270	3.9650	2.8690	30550
2.499	18.468	2.05760	1464.00000	85.94800	2.72890	2.88190	1.44660	1.71340	3.8630	2.8630	29840
2.499	20.509	2.05200	1465.50000	85.94800	2.69440	2.81560	1.42740	1.70460	3.8890	2.7510	29580
2.499	22.558	2.05000	1464.00000	85.94800	2.66940	2.73950	1.40370	1.69730	3.6560	2.5400	27670
2.499	24.605	2.04760	1464.00000	85.94800	2.52560	2.67870	1.37310	1.68550	3.5710	2.3920	25370
2.499	25.625	2.07480	1465.50000	85.94800	2.48870	2.66870	1.35500	1.68600	3.5890	2.3780	23370
GRADIENT					.00844	-.00869	.00769	.01160	-.00074	-.00371	.00143

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

(AE7R16) (02 AUG 76)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RUN NO. 422/ 0 RNAL = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	1.172	2.2290	1971.20000	50.57400	3.64260	3.95670	1.57790	1.90800	4.7880	3.2430	2.8220
3.499	1.153	2.21920	1972.60001	50.61000	3.61900	3.94180	1.57330	1.90660	4.7890	3.1010	2.7500
3.499	3.873	2.20830	1972.60001	50.61000	3.61900	3.94180	1.57330	1.90660	4.7890	3.1010	2.7500
3.499	5.901	2.20240	1974.70000	50.66500	3.62280	3.91340	1.60990	1.95650	4.5120	3.1910	2.9950
3.499	7.969	2.19430	1974.70000	50.66500	3.62280	3.91340	1.60990	1.95650	4.5120	3.1910	2.9950
3.499	9.947	2.18950	1974.70000	50.64700	3.61600	3.80870	1.61930	1.95260	4.3680	3.1960	2.8110
3.499	11.976	2.18260	1974.70000	50.64700	3.59610	3.80870	1.62800	1.95430	4.2330	3.1960	2.7270
3.499	14.010	2.18330	1974.70000	50.64700	3.53570	3.80870	1.62800	1.95430	4.2330	3.1960	2.7270
3.499	16.043	2.18330	1974.70000	50.64700	3.49260	3.76260	1.62730	1.95330	4.1930	3.1930	2.6920
3.499	18.075	2.18330	1974.70000	50.64700	3.40250	3.73010	1.62730	1.95330	4.1930	3.1930	2.6920
3.499	20.108	2.18330	1974.70000	50.64700	3.33120	3.69500	1.62730	1.95330	4.1930	3.1930	2.6920
3.499	22.139	2.18330	1974.70000	50.64700	3.25950	3.65980	1.62730	1.95330	4.1930	3.1930	2.6920
3.499	24.178	2.18330	1974.70000	50.64700	3.19570	3.62200	1.62730	1.95330	4.1930	3.1930	2.6920
3.499	25.195	2.18330	1974.70000	50.64700	3.15700	3.57320	1.62730	1.95330	4.1930	3.1930	2.6920
3.499	GRADIENT	2.20200	1974.70000	50.64700	3.15700	3.57320	1.62730	1.95330	4.1930	3.1930	2.6920
		-.00509	1974.70000	50.64700	3.15700	3.57320	1.62730	1.95330	4.1930	3.1930	2.6920
		3.4595	1974.70000	50.64700	3.15700	3.57320	1.62730	1.95330	4.1930	3.1930	2.6920

RUN NO. 429/ 0 RNAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	1.172	2.25340	2682.70001	35.23400	4.39440	4.77620	1.75560	2.13950	5.2060	3.1970	2.8450
3.499	1.153	2.24290	2684.79999	35.26200	4.37060	4.76750	1.75560	2.13950	5.2060	3.1970	2.8450
3.499	3.873	2.23110	2684.79999	35.26200	4.37060	4.76750	1.75560	2.13950	5.2060	3.1970	2.8450
3.499	5.901	2.22100	2685.50000	35.27100	4.36610	4.76770	1.75970	2.14630	4.9650	2.9550	2.5300
3.499	7.969	2.21690	2684.10001	35.25300	4.36370	4.76770	1.75970	2.14630	4.9650	2.9550	2.5300
3.499	9.947	2.21220	2685.39999	35.24400	4.34980	4.76720	1.81400	2.21570	4.4310	2.7740	2.7230
3.499	11.976	2.20900	2682.70001	35.22500	4.28240	4.76720	1.79690	2.22890	4.0610	2.5940	2.6240
3.499	14.010	2.20510	2682.00000	35.22500	4.23330	4.76720	1.79690	2.22890	3.7500	2.5940	2.6240
3.499	16.043	2.20510	2682.70001	35.23400	4.15640	4.76720	1.79690	2.22890	3.5180	2.5940	2.6240
3.499	18.075	2.20730	2684.10001	35.23400	4.08710	4.76720	1.79690	2.22890	3.2590	2.5940	2.6240
3.499	20.108	2.20360	2682.70001	35.23400	4.03260	4.76720	1.79690	2.22890	3.0000	2.5940	2.6240
3.499	22.139	2.21600	2683.39999	35.23400	3.99000	4.76720	1.79690	2.22890	2.7450	2.5940	2.6240
3.499	24.178	2.22300	2682.70001	35.23400	3.87650	4.76720	1.79690	2.22890	2.4950	2.5940	2.6240
3.499	25.195	2.22590	2683.39999	35.23400	3.81750	4.76720	1.79690	2.22890	2.2450	2.5940	2.6240
3.499	GRADIENT	2.20591	2683.39999	35.23400	3.81750	4.76720	1.79690	2.22890	2.0056	2.5940	2.6240
		-.00591	2683.39999	35.23400	3.81750	4.76720	1.79690	2.22890	1.7450	2.5940	2.6240
		3.4595	2683.39999	35.23400	3.81750	4.76720	1.79690	2.22890	1.4950	2.5940	2.6240

(AE7R17) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09A)

ARC 11-97-87-09A 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 4.74.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = 0.360

RUN NO. 28/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PSI/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	.110	5.34110	2578.70001	1.00840	1.06900	.96440	.99580	.94370	.94290	.95250
.596	2.152	5.35570	2573.39999	1.01160	1.07170	.96720	1.00070	.95020	.94260	.95160
.596	4.218	5.37430	2580.10001	1.01250	1.07420	.97050	1.00300	.95010	.94430	.95270
.596	6.303	5.37840	2579.39999	1.01300	1.07230	.97130	1.00610	.94870	.94110	.95240
.596	8.393	5.38380	2580.10001	1.01170	1.07080	.97140	1.00930	.95020	.94440	.95370
.596	10.516	5.37830	2580.10001	1.00670	1.06800	.97080	1.00910	.95070	.94510	.95330
.596	12.637	5.37290	2580.79999	1.00290	1.06200	.96660	1.00780	.94860	.94340	.95210
.596	14.748	5.36440	2580.79999	.99440	1.05310	.96030	1.00290	.94380	.93610	.94920
.596	16.862	5.36820	2580.79999	.98490	1.04400	.95680	1.00190	.94150	.93380	.94840
.596	18.967	5.37110	2580.10001	.97190	1.03270	.94970	.99900	.93750	.92580	.94250
.596	21.059	5.37930	2580.10001	.95770	1.01980	.93150	.98460	.93120	.92160	.93710
.596	23.147	5.38900	2580.79999	.94480	1.00660	.91500	.96780	.92510	.91540	.92680
.595	25.192	5.40730	2581.50000	.92780	.98060	.92200	.94650	.90690	.90690	.91640
.595	26.088	5.43040	2580.79999	.91750	.96380	.91650	.93380	.90580	.90580	.90640
.595	GRADIENT	.00807	.34076	.00075	.00127	.00148	.00151	.00010	.00034	.00010

RUN NO. 38/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PSI/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.697	.100	5.35310	2309.20001	1.01780	1.10150	.95130	.99460	.95130	.92220	.93278
.698	2.144	5.33920	2310.70001	1.02010	1.10450	.95520	1.00010	.93020	.92220	.93360
.698	4.233	5.38400	2310.70001	1.02060	1.10630	.96120	1.00610	.93050	.92400	.93450
.697	6.329	5.38540	2310.70001	1.02020	1.10630	.96140	1.01100	.93070	.92070	.93980
.698	8.437	5.38730	2310.70001	1.01890	1.10210	.96280	1.01380	.92970	.92320	.93270
.696	10.566	5.38130	2309.89999	1.01350	1.09600	.95130	1.01470	.93180	.92740	.93780
.696	12.664	5.37570	2309.89999	1.00940	1.08740	.95880	1.01580	.92580	.91980	.93470
.697	14.788	5.37410	2332.60001	.99698	1.07930	.95300	1.01210	.91990	.91110	.92730
.697	16.936	5.38490	2332.60001	.98420	1.06780	.94630	1.00960	.91690	.90560	.92820
.697	19.067	5.40830	2333.29999	.96930	1.05370	.93880	1.00620	.91040	.89750	.92320
.696	21.174	5.41950	2332.60001	.95070	1.03780	.92970	.99810	.90740	.89620	.91620
.696	23.264	5.41950	2332.60001	.93080	1.01580	.91270	.98670	.90180	.88590	.90250
.696	25.273	5.41950	2332.60001	.91080	1.00000	.90310	.97890	.87400	.86640	.87910
.696	26.158	5.46400	2332.60001	.89840	.98970	.89270	.97230	.86300	.85570	.86980
.695	GRADIENT	.00753	.36169	.00068	.00116	.00240	.00278	.00014	.00044	.00044

(AE7R17) (02 AUG 75)

ARC 11-97-87-094 04161 ORBITER

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	P	RV/L	4.23	GRADIENT INTERVAL = -5.00/ 5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.800	.077	5.35340	2177.70001	1429.10001	1429.10001	1.03400	1.14640	.93480	.99330	.90380	.90380	.90380	.90380	.91010
.801	2.151	5.39270	2177.70001	1427.70000	1427.70000	1.03780	1.15670	.94470	1.00440	.90650	.90650	.90650	.90650	.91400
.799	4.249	5.39300	2177.70001	1429.80000	1429.80000	1.03980	1.15150	.95100	1.01160	.90450	.90450	.90450	.90450	.91400
.799	6.363	5.40020	2178.39999	1431.20000	1431.20000	1.03860	1.14850	.95570	1.01810	.90320	.90320	.90320	.90320	.91260
.797	8.478	5.40290	2178.39999	1433.39999	1433.39999	1.03570	1.14440	.96020	1.02420	.90520	.90520	.90520	.90520	.91330
.798	10.608	5.39490	2179.10001	1432.00000	1432.00000	1.03000	1.13910	.95830	1.02480	.90880	.90880	.90880	.90880	.90580
.801	12.741	5.39810	2193.60001	1441.89999	1441.89999	1.02800	1.13310	.95150	1.03000	.90120	.90120	.90120	.90120	.91000
.798	14.863	5.40560	2201.00000	1446.60000	1446.60000	1.00810	1.11660	.95150	1.02550	.88930	.88930	.88930	.88930	.90060
.800	16.988	5.42250	2201.70001	1444.00000	1444.00000	.99540	1.10180	.94450	1.02400	.88240	.88240	.88240	.88240	.89460
.799	19.138	5.43560	2201.00000	1445.39999	1445.39999	.96710	1.08180	.92990	1.01510	.86740	.86740	.86740	.86740	.88120
.794	21.246	5.44370	2198.20001	1450.39999	1450.39999	.96190	1.06130	.92070	1.00900	.86290	.86290	.86290	.86290	.88720
.792	23.331	5.44250	2198.89999	1445.39999	1445.39999	.92650	1.04290	.90610	1.00030	.83980	.83980	.83980	.83980	.86290
.793	25.341	5.44830	2198.89999	1449.78000	1449.78000	.99920	1.01620	.88930	.98720	.81810	.81810	.81810	.81810	.82850
.797	26.266	5.50540	2198.89999	1446.80000	1446.80000	.89410	1.01000	.88490	.98680	.81520	.81520	.81520	.81520	.81770
	GRADIENT	.00948	.02080	.15849		.00095	.00122	.00388	.00439	.00017	.00017	.00017	.00017	.00093

MACH	ALPHA	BETA	PT	P	RV/L	4.23	GRADIENT INTERVAL = -5.00/ 5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.851	.077	5.37230	2167.10001	1350.29000	1350.29000	1.04910	1.17300	.93030	.99710	.86780	.86780	.86780	.86780	.89810
.850	2.197	5.39110	2167.10001	1350.89999	1350.89999	1.05210	1.17750	.94180	1.00680	.86700	.86700	.86700	.86700	.89820
.850	4.266	5.40020	2167.10001	1350.89999	1350.89999	1.05350	1.17970	.95410	1.01770	.86520	.86520	.86520	.86520	.89980
.849	6.384	5.39770	2166.39999	1352.39999	1352.39999	1.05250	1.17730	.95850	1.02580	.86890	.86890	.86890	.86890	.89780
.848	8.502	5.40220	2167.10001	1353.80000	1353.80000	1.04970	1.17310	.96110	1.03060	.86490	.86490	.86490	.86490	.89220
.846	10.633	5.39680	2166.39999	1353.80000	1353.80000	1.04350	1.16270	.96320	1.03780	.86530	.86530	.86530	.86530	.89500
.845	12.758	5.40220	2166.39999	1353.80000	1353.80000	1.03620	1.15300	.96300	1.03820	.86300	.86300	.86300	.86300	.88830
.846	14.892	5.41680	2166.39999	1353.80000	1353.80000	1.02050	1.14390	.95790	1.03990	.86200	.86200	.86200	.86200	.87830
.848	17.029	5.43460	2167.10001	1353.10001	1353.10001	1.00390	1.12760	.95780	1.03650	.86400	.86400	.86400	.86400	.87930
.846	19.177	5.44950	2167.10001	1357.30000	1357.30000	.98290	1.10408	.93540	1.02610	.85150	.85150	.85150	.85150	.88110
.848	21.307	5.45790	2166.39999	1353.80000	1353.80000	.95770	1.08740	.92680	1.02440	.84010	.84010	.84010	.84010	.86230
.844	23.359	5.45390	2167.79999	1359.50000	1359.50000	.92890	1.06000	.90840	1.01000	.80060	.80060	.80060	.80060	.81650
.847	25.408	5.46340	2167.79999	1355.89999	1355.89999	.90210	1.03690	.89150	1.00290	.78820	.78820	.78820	.78820	.82800
.851	26.333	5.49520	2167.10001	1346.50000	1346.50000	.88570	1.02660	.88050	.99750	.73440	.73440	.73440	.73440	.77720
	GRADIENT	.00666	.02005	.16674		.00107	.00160	.00568	.00492	.00110	.00110	.00110	.00110	.00041

(AE7R17) (02 AUG 78)

PARAMETRIC DATA

BETA = 5.000 ELEVOM = .000
AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XQ
LREF = 474.8060 IN. YMRP = .0000 IN. YQ
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 49* 0 RNAL = 4.2* GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.899	.077	5.36790	2126.10001	1.06920	1.20920	9.3730	1.00500	.86780	.85480	.87460
.901	2.173	5.33030	2126.79999	1.07300	1.21310	9.4980	1.01530	.86610	.85620	.87560
.909	4.282	5.40590	2126.10001	1.07640	1.21260	9.6260	1.02990	.86970	.86110	.88060
.900	6.405	5.41170	2126.79999	1.07570	1.21110	9.6870	1.03840	.87300	.86830	.88060
.899	8.522	5.41360	2126.10001	1.06880	1.20550	9.7380	1.04790	.86920	.86530	.87780
.907	10.658	5.40500	2126.79999	1.06200	1.19590	9.7670	1.05310	.86900	.86510	.87360
.907	12.791	5.39880	2126.79999	1.05580	1.18490	9.7380	1.05650	.86900	.86510	.87360
.896	14.929	5.42120	2126.79999	1.03810	1.17110	9.6850	1.05530	.86700	.86310	.87100
.899	17.082	5.43940	2126.79999	1.02520	1.15830	9.6530	1.05520	.86500	.86110	.86900
.898	19.234	5.45200	2126.79999	.99840	1.10960	9.3280	1.03450	.84500	.83670	.85500
.894	21.349	5.46200	2126.79999	.97840	1.08770	9.1610	1.02840	.83930	.83100	.84900
.895	23.409	5.44410	2126.79999	.94430	1.06030	8.9760	1.01930	.83110	.82280	.84000
.896	25.482	5.41560	2127.00000	.89550	1.05440	8.8310	1.01710	.82400	.81570	.83300
.898	GRADIENT	.00903	-.00053	.00171	.00881	.00599	.00592	.00143	.00150	.00143

RUN NO. 59* 0 RNAL = 4.2* GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.949	.083	5.36950	2085.70001	1.10080	1.25320	9.6030	1.02940	.82500	.81220	.83080
.951	2.189	5.39320	2085.70001	1.10850	1.25820	9.7570	1.04490	.83120	.81900	.84040
.956	4.307	5.39450	2085.00000	1.10710	1.25840	9.8520	1.05560	.82590	.81900	.83510
.948	6.440	5.39850	2085.70001	1.10860	1.25520	9.9360	1.06700	.83170	.82000	.84920
.948	8.574	5.41640	2085.70001	1.10160	1.24790	9.9730	1.07430	.82390	.81360	.83210
.950	10.730	5.40050	2086.39999	1.09490	1.24140	1.00240	1.08400	.82130	.81740	.82510
.949	12.862	5.37530	2085.70001	1.08580	1.22740	.99970	1.08540	.81310	.80980	.82300
.948	15.016	5.40030	2085.70001	1.06480	1.20970	.99130	1.08100	.80000	.79200	.81100
.948	17.167	5.41650	2085.00000	1.04990	1.19610	.98450	1.07990	.78330	.77020	.80220
.952	19.342	5.42230	2087.00001	1.02710	1.17860	.97450	1.07930	.77230	.76030	.79030
.953	21.495	5.43630	2086.39999	.99820	1.15160	.95760	1.06770	.74910	.73630	.77030
.948	23.531	5.43030	2085.70001	.96680	1.12400	.93760	1.05630	.70740	.69860	.73800
.951	25.574	5.44420	2168.60001	.93640	1.09360	.91640	1.04680	.69450	.68830	.72700
.947	GRADIENT	.00951	-.16591	.00149	.00123	.00970	.00620	.00021	.00161	.00125

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TABULATED DATA - 04161 (ARC 11-97-87-094)

(AETRI77) (02 AUG 76)

ARC 11-97-87-094 04161 ORBITER

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .008 BOFLAP = -7.170

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6900 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 373.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	PT	RN/L	504 0	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.981	.085	5.35640	2076.50000	1122.00000	1.13080	1.28840	.98330	1.05380	.78370	.77000	.75780	.75780
.980	2.188	5.38790	2073.79999	1122.00000	1.13400	1.29290	.98780	1.05870	.78610	.77440	.76400	.76400
.981	4.317	5.40160	2076.50000	1121.30000	1.13610	1.29450	1.01000	1.08180	.78550	.77500	.76550	.76550
.979	6.453	5.39950	2075.79999	1123.39999	1.13410	1.28970	1.01570	1.09180	.78150	.77150	.76150	.76150
.981	8.602	5.40130	2078.00000	1122.70000	1.12850	1.28390	1.02090	1.10050	.76390	.75440	.74440	.74440
.982	10.786	5.39400	2078.00000	1123.39999	1.12830	1.27230	1.02880	1.10560	.76370	.75370	.74370	.74370
.977	12.899	5.39210	2073.79999	1124.89999	1.10890	1.25750	1.01150	1.10730	.76450	.75450	.74450	.74450
.977	15.056	5.39370	2075.10000	1125.60000	1.09090	1.24050	1.01150	1.10730	.76450	.75450	.74450	.74450
.980	17.218	5.43750	2076.50000	1124.20000	1.06990	1.22360	1.00270	1.10290	.76650	.75650	.74650	.74650
.979	19.381	5.43350	2076.50000	1124.20000	1.04550	1.20210	.99000	1.09660	.76650	.75650	.74650	.74650
.979	21.523	5.44630	2076.50000	1123.39999	1.01610	1.17690	.97500	1.08810	.68280	.67300	.66300	.66300
.980	23.604	5.44590	2077.39999	1123.39999	.98770	1.15060	.93280	1.07200	.68280	.67300	.66300	.66300
.981	25.650	5.46550	2076.50000	1122.70000	.95400	1.12320	.93036	1.05400	.67300	.66300	.65300	.65300
.981	28.553	5.50280	2075.79999	1125.60000	.93140	1.10990	.91610	1.05720	.67300	.66300	.65300	.65300
.977	GRADIENT	.01057	.00667	.16576	.00125	.00144	.00631	.00662	.00842	.00118	.00205	.00205

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	RN/L	504 0	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.050	.095	5.36940	2040.50000	1015.60000	1.21360	1.38730	1.05410	1.12970	.72510	.70350	.69750	.69750
1.052	2.205	5.41300	2042.69999	1014.20000	1.21690	1.39100	1.07130	1.14510	.71590	.69750	.69750	.69750
1.050	4.350	5.39780	2040.50000	1016.30000	1.21620	1.38950	1.08090	1.15630	.71880	.70130	.69820	.69820
1.048	6.470	5.40530	2039.80000	1017.70000	1.21430	1.38270	1.09470	1.16640	.71670	.69820	.69820	.69820
1.052	8.620	5.40950	2044.00000	1015.60000	1.20990	1.37790	1.09470	1.17720	.70770	.68670	.67940	.67940
1.050	10.785	5.38100	2032.00000	1011.30000	1.19850	1.35550	1.09590	1.18180	.69900	.67940	.67940	.67940
1.048	12.932	5.38360	2028.50000	1012.70000	1.18350	1.34580	1.08000	1.18000	.69380	.67460	.66150	.66150
1.050	15.093	5.40420	2031.30000	1011.30000	1.16060	1.32700	1.08000	1.17780	.69380	.67460	.66150	.66150
1.048	17.232	5.43850	2029.20000	1012.70000	1.13940	1.30770	1.06450	1.17140	.68880	.6680	.65590	.65590
1.049	19.428	5.45240	2028.50000	1010.60000	1.11430	1.28330	1.04950	1.16540	.68880	.6680	.65590	.65590
1.051	21.574	5.45810	2032.00000	1010.60000	1.08500	1.26190	1.03250	1.15570	.68050	.64820	.63290	.63290
1.050	23.671	5.47480	2030.60000	1013.40000	1.04700	1.22810	1.00690	1.13900	.64080	.60820	.58490	.58490
1.048	25.729	5.47150	2033.39999	1012.70000	1.01200	1.19420	.99840	1.11910	.61610	.58490	.56550	.56550
1.050	28.553	5.53270	2030.60000	1013.40000	.98800	1.16550	1.00080	1.10990	.62220	.57580	.55520	.55520
1.048	GRADIENT	.00294	.00116	.16629	.00061	.00052	.00633	.00628	.00148	.00052	.00106	.00106

GRADIENT INTERVAL = -5.00/ 5.00

(AETR17) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 ATERON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09A)

ARC 11-97-87-09A 0A161 ORBITTER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BRFF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 70/ 0 RNVE = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.100	.086	5.35020	2015.00000	943.98000	1.25060	1.44260	1.08330	1.16628	.70470	.68100	.69870
1.100	2.195	5.39310	2013.60001	942.57000	1.25200	1.44450	1.09970	1.18010	.70450	.68100	.69870
1.099	4.329	5.39820	2013.60001	944.66000	1.25130	1.44640	1.11060	1.19040	.70240	.68140	.69870
1.099	6.470	5.39650	2015.70000	945.38000	1.24760	1.43380	1.12450	1.20560	.69670	.67370	.68560
1.099	8.622	5.40440	2015.00000	944.67000	1.24210	1.42480	1.12680	1.21290	.68848	.66140	.67050
1.099	10.790	5.38210	2015.70000	946.08000	1.22730	1.40920	1.12860	1.21700	.69130	.66190	.68090
1.099	12.940	5.38480	2016.39999	946.39000	1.21580	1.39160	1.11930	1.21510	.68770	.65940	.68030
1.100	15.106	5.40530	2015.00000	943.98000	1.19420	1.37640	1.11040	1.21300	.68600	.65880	.67920
1.098	17.264	5.44490	2014.30000	946.07000	1.16750	1.35030	1.09200	1.19790	.68830	.64460	.65090
1.098	19.442	5.45590	2017.10001	946.09000	1.13990	1.32330	1.08340	1.18290	.67100	.62630	.64620
1.097	21.576	5.46320	2015.00000	946.77000	1.10810	1.29980	1.08700	1.15620	.65570	.62880	.60930
1.099	23.679	5.47550	2017.10001	946.09000	1.07060	1.27300	.95570	1.13500	.57010	.59450	.59450
1.101	25.755	5.48800	2017.10001	944.66000	1.04000	1.24010	.91720	1.12530	.62280	.58200	.59580
1.098	28.713	5.48810	2012.89999	944.66000	1.01700	1.21110	.91940	1.12930	.54860	.58250	.60250
	GRADIENT	.01130	-.32937	.16184	.00016	-.00052	.00643	.00570	-.00094	.00005	-.00189

RUN NO. 79/ 0 RNVE = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.149	.088	5.37900	2013.60001	886.86000	1.30740	1.51280	1.11210	1.20630	.69280	.68340	.68500
1.149	2.192	5.39930	2013.60001	886.16000	1.30380	1.51260	1.13110	1.20720	.69880	.67630	.68910
1.148	4.314	5.41620	2013.60001	887.56000	1.29670	1.50750	1.14410	1.23580	.69560	.68220	.68330
1.147	6.459	5.40910	2013.60001	889.95000	1.29350	1.49700	1.15270	1.23520	.69260	.66250	.68580
1.147	8.620	5.41600	2013.60001	889.65000	1.29050	1.49430	1.16180	1.24000	.68560	.65080	.67560
1.143	10.792	5.39460	2013.60001	893.13000	1.27530	1.47140	1.16580	1.23630	.68100	.64630	.65260
1.143	12.949	5.39340	2015.70000	892.45000	1.27030	1.45010	1.16530	1.23030	.67660	.64190	.65750
1.142	15.103	5.41930	2013.60001	894.52000	1.25350	1.42740	1.09810	1.20930	.67150	.62770	.64930
1.148	17.263	5.44340	2014.30000	888.26000	1.21860	1.41490	1.03930	1.18480	.66466	.62910	.64470
1.141	19.440	5.45920	2015.00000	895.93000	1.18770	1.38530	1.01620	1.1770	.66490	.61220	.64470
1.142	21.581	5.46790	2017.80000	895.95000	1.15190	1.35610	.97350	1.14870	.64990	.57810	.60440
1.141	23.683	5.47090	2010.80000	894.56000	1.11830	1.33010	.94630	1.14020	.63870	.56550	.60440
1.149	25.770	5.49750	2015.00000	886.87000	1.10350	1.30940	.91220	1.13900	.62430	.54320	.59970
1.144	28.789	5.49670	2010.80000	893.02000	1.07810	1.28920	.89350	1.13910	.62300	.53640	.58970
	GRADIENT	.00880	.00082	.16637	-.00253	-.00126	.00757	.00462	.00036	.00018	-.00036

(AE7R17) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2697.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 3.008 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

RUN NO. : 804 0 RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.198	.084	5.39570	2010.10001	831.09000	1.33760	1.50320	1.13450	1.24230	.67230	.64200	.55350
1.199	2.183	5.40760	2003.70000	826.87000	1.33060	1.50320	1.16000	1.23420	.68170	.65300	.66730
1.197	4.303	5.41060	2005.10001	830.36000	1.32570	1.54750	1.16680	1.25370	.67380	.64580	.66110
1.195	6.449	5.40640	2011.50030	833.88000	1.31900	1.53360	1.18860	1.26170	.67450	.63960	.65520
1.193	8.609	5.41610	2005.80000	832.45000	1.31400	1.56350	1.15660	1.25590	.68400	.62780	.63940
1.191	10.783	5.39200	2004.39999	833.84000	1.30170	1.50790	1.09610	1.22700	.65870	.61690	.62510
1.193	12.934	5.40450	2010.90000	836.65000	1.30220	1.49640	1.06950	1.20280	.65520	.61440	.63110
1.197	15.094	5.41820	2009.39999	831.78000	1.27370	1.47880	1.04810	1.20550	.65850	.60460	.62590
1.196	17.251	5.44530	2009.10001	831.75000	1.24330	1.45490	1.02800	1.19350	.64670	.58900	.60340
1.190	19.423	5.46050	2006.50000	838.03000	1.21700	1.42320	1.00270	1.18070	.64270	.58180	.61180
1.192	21.566	5.46340	2012.20000	838.77000	1.17770	1.39670	1.02790	1.17070	.63250	.55680	.58850
1.190	23.687	5.46700	2008.60001	839.44000	1.14530	1.36600	.98600	1.16450	.62450	.56410	.57600
1.194	25.763	5.48790	2010.10001	839.79000	1.12140	1.34140	.90140	1.15680	.61820	.52200	.57370
1.196	26.783	5.49970	2008.60001	832.47000	1.11900	1.33120	.89360	1.15640	.61340	.51130	.55440
	GRADIENT	.03353	-1.18005	-17009	-.08282	-.00136	.00765	.00271	.00035	.00883	.00179

RUN NO. : 894 0 RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.294	.072	5.39590	2004.39999	729.53000	1.41650	1.64780	1.16040	1.26660	.63590	.59550	.61510
1.293	2.164	5.41390	2005.80000	729.97000	1.41010	1.64470	1.14110	1.26880	.63480	.59370	.62280
1.299	4.284	5.42690	2003.70000	724.46000	1.40760	1.65110	1.10840	1.26030	.64020	.59650	.62140
1.297	6.422	5.42450	2004.39999	725.93000	1.40170	1.64060	1.09570	1.24930	.63550	.59880	.61360
1.295	8.577	5.43780	2013.70000	728.13000	1.38840	1.62040	1.08980	1.24960	.62920	.58040	.59780
1.293	10.749	5.39200	2004.39999	730.22000	1.37310	1.60370	1.07890	1.24980	.62120	.56270	.58200
1.295	12.884	5.40740	2004.39999	728.13000	1.36070	1.58970	1.06520	1.24700	.62560	.56190	.57340
1.294	15.033	5.42930	2004.39999	729.53000	1.34800	1.56430	1.04300	1.24190	.61840	.53930	.55720
1.293	17.213	5.44970	2004.39999	730.22000	1.33320	1.53960	1.01470	1.23360	.61260	.52730	.54950
1.292	19.380	5.46280	2004.39999	731.61000	1.27810	1.51940	.99550	1.22440	.60950	.52870	.54270
1.289	21.524	5.48930	2005.10001	735.10000	1.24940	1.48350	.95500	1.22510	.61160	.52580	.53740
1.292	23.632	5.47300	2005.80000	732.32000	1.22260	1.46650	.93660	1.21830	.58950	.52700	.51070
1.293	25.737	5.49550	2006.50000	736.50000	1.18370	1.43700	.91360	1.20560	.57680	.46150	.50030
1.295	26.783	5.51380	2003.10001	727.40000	1.18590	1.43630	.90500	1.20500	.57990	.46280	.48380
	GRADIENT	.00710	-.16885	-120271	-.08211	.00678	-.01235	-.00149	.00102	.00024	.00149

(AETRI7) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AHLRON = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161A ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
SREF = 935.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 90/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.393	.055	5.3850	2030.6000	638.54000	1.52270	1.76530	1.09680	1.26020	.61070	.55940	.57840
1.403	2.139	5.42510	2029.8999	634.88000	1.51390	1.77280	1.11340	1.27410	.61620	.56690	.59900
1.393	4.258	5.42150	2031.6001	638.54000	1.50000	1.75680	1.11160	1.26570	.61450	.55580	.60198
1.399	6.394	5.44210	2032.6001	639.28000	1.49180	1.76440	1.09820	1.26120	.61460	.56378	.59342
1.397	8.538	5.43940	2030.6001	640.75000	1.47899	1.75590	.09820	1.25090	.61010	.55040	.57240
1.399	10.705	5.44280	2030.6001	640.02000	1.46699	1.71160	.09310	1.25630	.60800	.55380	.56300
1.397	12.846	5.43890	2031.3000	641.48000	1.47650	1.69400	1.07640	1.29420	.60910	.56360	.54360
1.394	15.003	5.44560	2031.3000	643.69000	1.43840	1.65520	1.05730	1.28970	.60180	.50710	.53280
1.385	17.160	5.44810	2030.6001	642.95000	1.38630	1.62118	1.03350	1.28630	.59460	.48620	.53170
1.399	19.330	5.45830	2032.6000	642.95000	1.36190	1.58670	1.00260	1.28470	.59350	.49750	.51090
1.398	21.470	5.47840	2032.7000	639.93000	1.33590	1.56340	.96390	1.27520	.59830	.56540	.48980
1.389	23.986	5.47810	2032.7000	641.44000	1.29940	1.54670	.94500	1.26760	.51240	.45790	.50900
1.397	25.688	5.51260	2032.7000	639.24000	1.26820	1.53390	.92700	1.25640	.51780	.44350	.47720
1.399	26.728	.00830	.00094	.00486	-.00228	-.00228	.00354	.00607	.55870	.42440	.45170
	GRADIENT								.00093	.00133	.00558

RUN NO. 325/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	F	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.073	4.56680	1544.0000	387.63000	1.64400	1.95960	1.09840	1.31870	.55880	.55640	.54960
1.566	2.065	4.58280	1544.0000	387.63000	1.64800	1.98940	1.11330	1.32440	.57130	.54650	.56170
1.566	4.135	4.55150	1542.6001	387.27000	1.64990	1.94980	1.12620	1.32580	.57200	.54720	.56740
1.568	6.173	4.56570	1541.8000	387.09000	1.63940	1.92670	1.12950	1.33400	.56980	.54320	.57570
1.568	8.241	4.56460	1541.1000	386.92000	1.63100	1.91540	1.12990	1.34398	.56570	.52900	.58480
1.566	10.345	4.56330	1541.8000	387.09000	1.61400	1.89670	1.11470	1.34770	.57700	.57700	.55740
1.556	12.345	4.57900	1542.6001	387.09000	1.58680	1.89450	1.10600	1.35460	.56000	.57380	.53800
1.556	14.426	4.56930	1541.8000	387.27000	1.55540	1.86460	1.08960	1.35080	.54420	.49430	.51990
1.566	16.587	4.56150	1543.3000	387.63000	1.53390	1.84850	1.06370	1.34650	.54220	.47618	.50350
1.565	18.683	4.56150	1543.3000	387.45000	1.50110	1.82130	1.04450	1.34640	.53380	.46458	.47930
1.565	20.682	4.56890	1543.3000	387.45000	1.46740	1.79490	1.02860	1.36570	.52110	.46220	.46220
1.556	22.777	4.56330	1544.0000	387.63000	1.44088	1.76670	1.01670	1.36440	.50420	.44530	.47930
1.556	24.837	4.56260	1543.3000	387.45000	1.41900	1.74240	.98070	1.35110	.47760	.43780	.45020
1.556	25.963	4.68200	1542.6001	387.27000	1.40040	1.73030	.97290	1.34380	.44180	.43030	.44180
	GRADIENT				-.00828	-.00228	.00684	.00177	.00078	-.00225	-.00437

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OF FOUR QUALITY

(AETRI7) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 ALRON = .000 BEFLAP = -7.170

TABULATED DATA - OAI61 (ARC 11-97-87-094)

ARC 11-97-87-094 OAI61 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SO.FT. XPRP = 1075.6800 IN. XO
 LPEF = 474.8080 IN. YMRP = .0000 IN. YO
 BRSEF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 3267 0		RN/L =		3.05		GRADIENT INTERVAL =		-5.00/		5.00	
MACH	ALPHA	BETA	PT	R	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-0.038	4.74660	1651.50000	309.98000	1.83610	2.23530	1.12190	1.45170	.53190	.53940	.49760
1.750	1.946	4.75010	1653.60000	310.38000	1.83810	2.22510	1.13420	1.46310	.53270	.52640	.50070
1.750	3.984	4.75090	1652.20000	310.11000	1.82550	2.22210	1.14430	1.46070	.53640	.51760	.50500
1.750	6.031	4.74900	1649.39999	309.58000	1.81580	2.20310	1.14910	1.46070	.53530	.49700	.51470
1.750	8.093	4.74820	1647.88999	309.32000	1.80070	2.18930	1.14440	1.47710	.53820	.50380	.52360
1.750	10.151	4.74790	1647.88999	309.45800	1.79000	2.17610	1.13980	1.48210	.53700	.51180	.51350
1.750	12.197	4.75020	1648.63241	309.45000	1.78200	2.15460	1.12850	1.48730	.52170	.47470	.49430
1.750	14.257	4.75770	1649.39999	309.85000	1.73500	2.13450	1.11480	1.48540	.49860	.54780	.47510
1.750	16.409	4.76170	1660.62080	309.85000	1.70300	2.10180	1.09100	1.47740	.49960	.48290	.48290
1.750	20.520	4.77248	1652.20000	310.11000	1.63290	2.04180	1.06370	1.46950	.48560	.43080	.43390
1.750	22.583	4.77730	1661.50000	309.98000	1.99880	2.01000	1.04990	1.48200	.48890	.42600	.43170
1.750	24.654	4.78130	1692.20000	310.11000	1.95970	1.98420	1.02450	1.47958	.45020	.40360	.41200
1.750	25.675	4.78400	1659.72000	309.72000	1.93530	1.97060	1.00930	1.48450	.38950	.38950	.40440
1.750	GRADIENT	.00107	.17018	.03158	-.00265	-.00328	.00557	.00222	.00112	-.00542	.00184

RUN NO. 3354 0		RN/L = 3.05		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.997	-0.010	4.41340	1816.30000	233.33000	2.04640	2.53490	1.15670	1.54440	.46260	.44890	.41850
1.997	2.040	4.41126	1815.60000	233.24000	2.03710	2.52700	1.15880	1.54650	.45580	.42510	.40920
1.997	6.158	4.41040	1816.30000	233.33080	2.01850	2.49970	1.17490	1.56560	.45860	.40370	.42200
1.997	8.222	4.41140	1816.30000	233.33000	1.99330	2.46420	1.16060	1.56860	.45140	.39590	.41040
1.997	10.282	4.41040	1815.60000	233.24000	1.97710	2.43800	1.15950	1.57230	.43510	.42390	.39340
1.997	12.323	4.41338	1815.60000	233.24000	1.95330	2.42150	1.15790	1.57000	.42850	.37680	.40190
1.997	14.339	4.41570	1816.30000	233.33080	1.92750	2.38850	1.15380	1.56940	.42410	.37470	.39760
1.997	16.537	4.41798	1816.30000	233.33000	1.89960	2.36910	1.12838	1.56710	.41130	.36270	.37550
1.997	20.645	4.42750	1815.60000	233.24080	1.81400	2.30120	1.10000	1.57950	.39830	.35050	.38430
1.997	22.718	4.43420	1815.60000	233.24000	1.76180	2.25080	1.05640	1.57150	.37970	.32340	.33010
1.997	24.788	4.43970	1816.30000	233.23940	1.70500	2.20948	1.02058	1.57700	.36420	.30840	.32390
1.997	GRADIENT	-.00094	-344.92	-.04435	-.08458	-.00889	.00153	.00403	-.00345	-.01173	-.00458

(AE7R77) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = -7.170

TABULATED DATA - OAM61 (ARC 11-97-87-094)

ARC 11-97-87-094 OAM61 ORBITER

REFERENCE DATA

SREF = 2899.0000 SQ.FT. XMRP = 1076.6809 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0360

RUN NO. 3451 0 RV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.249	-.096	4.11650	2651.70801	178.53000	2.32810	2.93350	1.22490	1.66500	.43810	.40230	.39240
2.249	1.690	4.11420	2066.20001	178.84000	2.32870	2.94900	1.22490	1.66500	.42950	.40230	.39240
2.249	3.931	4.11260	2070.89939	179.33000	2.31940	2.90900	1.25750	1.68740	.42440	.37838	.37500
2.249	5.957	4.11170	2070.20001	179.27000	2.36350	2.89450	1.25480	1.68990	.42520	.37180	.37500
2.249	10.090	4.11160	2070.26631	179.27000	2.27700	2.81950	1.25980	1.70870	.35450	.33520	.33100
2.249	12.125	4.11300	2070.82999	179.33000	2.26340	2.81100	1.25540	1.72000	.37170	.31240	.33100
2.249	14.203	4.11220	2070.20001	179.27000	2.24840	2.77430	1.24790	1.72160	.36390	.30160	.32630
2.249	16.304	4.11570	2070.89999	179.33000	2.22490	2.73770	1.23260	1.72100	.35820	.30160	.31770
2.249	18.407	4.12030	2071.60001	179.33000	2.18680	2.70550	1.23130	1.73130	.35970	.29740	.31230
2.249	20.420	4.12300	2070.89939	179.33000	2.16790	2.67120	1.20880	1.73180	.34930	.28720	.30540
2.249	22.439	4.12560	2070.89999	179.33000	2.10190	2.63850	1.19110	1.73280	.34780	.28470	.29560
2.249	24.551	4.13110	2070.89999	179.33000	2.09370	2.58320	1.14290	1.73190	.34140	.27420	.27320
2.249	25.571	4.13390	2070.89999	179.33000	2.03600	2.55510	1.09980	1.71890	.34120	.26810	.26610
2.249	GRADIENT	-.00737	2.28759	.19950	-.00218	-.00610	.00608	.00556	-.00340	-.00508	-.00431

RUN NO. 420/ 0 RV/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.499	.106	5.18470	1471.80000	86.32100	2.56990	3.45480	1.26110	1.88470	.51820	.39980	.37620
2.499	2.137	5.15770	1473.20000	86.40400	2.55620	3.43680	1.25610	1.87740	.49080	.35940	.34470
2.499	4.180	5.13550	1472.50000	86.35300	2.55680	3.42250	1.26960	1.89580	.48200	.35450	.33910
2.499	6.215	5.11650	1472.50000	86.36300	2.55370	3.42290	1.29190	1.93170	.48870	.35170	.33070
2.499	8.260	5.10230	1473.20000	86.40400	2.52840	3.39600	1.28870	1.93420	.47560	.35320	.32650
2.499	10.293	5.09320	1473.20000	86.40400	2.51660	3.39350	1.27930	1.94110	.44690	.33180	.30820
2.499	12.350	5.08760	1473.20000	86.46400	2.48320	3.34050	1.26400	1.94450	.41690	.30130	.28330
2.499	14.386	5.08510	1473.20000	86.40400	2.45650	3.30870	1.25430	1.95010	.40820	.27440	.28470
2.499	16.431	5.08530	1473.20000	86.40400	2.42300	3.25850	1.24640	1.94930	.40370	.27310	.27830
2.499	18.469	5.10370	1473.20000	86.40400	2.38400	3.21280	1.22610	1.95410	.38910	.25740	.25930
2.499	20.509	5.10370	1473.20000	86.40400	2.32900	3.15750	1.20230	1.97330	.38820	.25420	.24640
2.499	22.559	5.11650	1473.20000	86.40400	2.27650	3.10550	1.17790	1.97200	.37970	.24280	.24600
2.499	24.602	5.13520	1473.20000	86.40400	2.25730	3.09430	1.14930	1.98270	.39960	.22890	.22670
2.499	25.632	5.14500	1473.20000	86.40400	2.20520	3.03240	1.13330	1.92270	.39550	.23390	.23390
2.499	GRADIENT	-.01183	.17127	.01028	-.00321	-.00793	.00209	.00298	-.00868	-.00865	-.00954

REFERENCE DATA

SFET = 2590.0000 SO.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.000 IN. ZQ
SCALE = .0300

BETA =
ALIRON =

PARAMETRIC DATA

5.000 ELEVON = .000
.008 BDFLAP = -7.170

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.040	1.103	5.34720	1971.20000	50.57400	3.10680	4.50960	1.33580	2.25810	.52560	.34330	.32570
3.040	2.135	5.32150	1971.20000	50.57400	3.11030	4.49210	1.34980	2.26540	.50460	.33280	.29070
3.040	4.159	5.29880	1971.20000	50.57400	3.08900	4.46630	1.33210	2.26540	.45210	.29210	.25350
3.040	6.187	5.26020	1971.89999	50.59200	3.08566	4.44790	1.34750	2.27800	.45210	.28710	.26250
3.040	8.289	5.25440	1971.20000	50.57400	3.06890	4.42610	1.34970	2.29190	.43200	.29140	.23870
3.040	10.259	5.25570	1971.20000	50.57400	3.06170	4.37820	1.34630	2.29190	.41980	.24090	.22680
3.040	12.298	5.24790	1971.20000	50.57400	3.02570	4.35040	1.33920	2.33780	.40100	.24090	.21480
3.040	14.329	5.24580	1971.20000	50.57400	2.99880	4.29320	1.32690	2.33780	.39320	.22890	.21420
3.040	15.362	5.25010	1971.20000	50.57400	2.94248	4.23970	1.31100	2.33780	.36520	.20850	.19050
3.040	18.399	5.25370	1971.20000	50.57400	2.89830	4.17290	1.29710	2.35400	.36720	.21630	.19520
3.040	20.433	5.26360	1971.20000	50.57400	2.84120	4.11150	1.28660	2.37450	.35120	.20008	.17540
3.040	22.466	5.27650	1971.20000	50.57400	2.77710	4.03580	1.25120	2.37280	.35220	.21490	.19030
3.040	24.498	5.29440	1971.20000	50.57400	2.73028	3.95800	1.22520	2.37590	.36220	.22540	.19030
3.040	25.517	5.30360	1971.20000	50.57400	2.68810	3.92290	1.21120	2.37230	.36220	.22540	.19030
GRADIENT		-0.1193	0.0000	0.0000	-0.00438	-0.01057	-0.00094	.00126	-0.01683	-0.01262	-0.01780

RUN NO. 4307 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
3.499	1.182	5.47470	2682.00000	35.22500	3.69090	5.56930	1.43580	2.62110	.56690	.32580	.30070
3.499	1.836	5.45860	2684.10001	35.22500	3.67200	5.50550	1.42660	2.59700	.49730	.28130	.25110
3.499	3.868	5.42680	2682.00000	35.22500	3.66380	5.49250	1.43310	2.62880	.48860	.29260	.24240
3.499	5.892	5.40760	2682.70001	35.23400	3.67190	5.49190	1.46490	2.66640	.48450	.29350	.24680
3.499	7.919	5.39100	2684.10001	35.25300	3.65590	5.43800	1.44700	2.65690	.46310	.27230	.24220
3.499	11.986	5.37660	2683.39999	35.24400	3.61570	5.37710	1.47290	2.73750	.45410	.26350	.22830
3.499	14.004	5.37800	2683.39999	35.24400	3.55330	5.29290	1.44170	2.71870	.40600	.21490	.18980
3.499	18.042	5.37580	2682.70001	35.23400	3.50210	5.17970	1.42270	2.72360	.38800	.21720	.20220
3.499	18.068	5.38310	2683.39999	35.24400	3.47720	5.14780	1.43540	2.77490	.42200	.24640	.23140
3.499	20.102	5.39120	2682.00000	35.22500	3.47620	5.04070	1.36970	2.73750	.35890	.18790	.18290
3.499	22.135	5.40650	2683.39999	35.24400	3.31830	4.95080	1.36440	2.74570	.35980	.20400	.16890
3.499	24.165	5.42170	2681.29999	35.21600	3.23410	4.85430	1.32710	2.76110	.36100	.21010	.16480
3.499	25.182	5.43390	2684.10001	35.25300	3.19690	4.81390	1.30880	2.75600	.36470	.21400	.16890
GRADIENT		-0.1180	-0.0123	-0.00002	-0.08669	-0.01892	-0.00066	.00192	-0.01931	-0.00818	-0.01436

RUN NO. 4307 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

TABULATED DATA - 0A161 (ARC 11-97-87-084)

PAGE 269

ARC 11-97-87-084 0A161 ORBITER

(AEZTR19) (02 AUG 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 AIRRON =

PARAMETRIC DATA

BETA = -5.000
 ELEVON = .000
 BOFLAP = -7.170

RUN NO. 160/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.137	-4.98820	2617.60001	2056.79999	1.08620	1.00190	1.00290	.95650	.95400	.95490	.95540
.597	2.147	-4.96780	2617.60001	2056.79999	1.08760	1.00390	1.00440	.95970	.95480	.95420	.95600
.598	4.194	-4.93470	2617.60001	2056.79999	1.08900	1.00460	1.00600	.96240	.95500	.95580	.95650
.597	6.270	-4.92560	2618.29999	2056.79999	1.08970	1.00780	1.01330	.96290	.95350	.95640	.95650
.597	8.363	-4.91650	2618.29999	2057.60001	1.08740	1.00100	1.01400	.96210	.95320	.94758	.95900
.597	10.474	-4.90530	2619.00000	2057.60001	1.08340	.99650	1.01280	.96180	.95490	.94870	.96900
.597	12.585	-4.87930	2619.00000	2057.60001	1.07780	.99180	1.01140	.95980	.95330	.94780	.97300
.597	14.691	-4.87280	2619.00000	2057.60001	1.07040	.98350	1.00900	.95650	.95030	.94550	.95590
.597	16.791	-4.87678	2619.00000	2057.60001	1.06190	.97430	1.00530	.95124	.94780	.94060	.95190
.597	18.909	-4.90030	2619.00000	2057.60001	1.05140	.96370	.99950	.94520	.94490	.93610	.94380
.597	21.013	-4.90120	2619.00000	2058.29999	1.03730	.95120	.99340	.93680	.94180	.93050	.93490
.597	23.117	-4.89310	2619.00000	2058.29999	1.02320	.93560	.98430	.92890	.93850	.92900	.93190
.597	25.204	-4.88300	2619.00000	2059.00000	1.00890	.92000	.97690	.91850	.93100	.92560	.92560
.598	26.286	-4.87030	2619.70001	2057.60001	1.00010	.91180	.97180	.91620	.92190	.92630	.91540
GRADIENT		.00159	.00002	-.17306	.00094	.00066	.00190	.00143	.00025	-.00002	.00027

RUN NO. 161/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.110	-4.96780	2106.20001	1245.30000	1.24810	1.04780	1.02650	.90700	.88690	.86810	.87680
.901	2.177	-4.96670	2106.20001	1245.30000	1.25040	1.05480	1.04140	.92430	.88790	.86900	.88220
.901	4.258	-4.97330	2106.20001	1245.30000	1.25420	1.05520	1.05280	.93420	.88750	.86920	.88620
.899	6.368	-4.96170	2106.20001	1246.70000	1.25250	1.05280	1.06300	.94320	.89210	.87340	.88850
.899	8.485	-4.94890	2107.00000	1246.70000	1.24880	1.04350	1.06930	.94990	.88520	.87160	.89050
.899	10.612	-4.94230	2107.00000	1247.39999	1.24230	1.03740	1.07390	.95250	.88330	.86540	.88830
.899	12.733	-4.93200	2107.00000	1247.39999	1.23300	1.02700	1.07460	.95490	.87400	.85850	.87960
.901	14.853	-4.92700	2107.00000	1247.39999	1.22170	1.01300	1.07360	.95300	.86060	.84750	.86580
.901	17.025	-4.96970	2127.50000	1255.89999	1.20350	.99460	1.05700	.94400	.84940	.83650	.85630
.900	19.172	-4.96980	2127.50000	1258.70000	1.18340	.96820	1.05820	.93280	.83330	.81750	.83920
.900	21.310	-4.96480	2128.20001	1258.70000	1.16230	.94570	1.05090	.92420	.81660	.79540	.81780
.902	23.425	-4.95960	2125.29999	1256.60001	1.13400	.91350	1.03550	.90510	.77810	.76820	.78510
.902	25.498	-4.94540	2125.29999	1253.80000	1.10840	.88170	1.02190	.88960	.74330	.73460	.72460
.899	26.506	-4.91220	2124.60001	1253.80000	1.09320	.86280	1.01060	.87890	.73570	.73390	.70690
GRADIENT		.00153	.19305	-.33717	.00123	.00178	.00534	.00536	.00614	.00041	.00231

TABULATED DATA - 0A181 (ARC 11-97-87-094)
ARC 11-97-87-094 0A181 ORBITER

PAGE 286

(1AETR18) (02 AUG 76)

REFERENCE DATA

SREF = 2699.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.8808 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0360

PARAMETRIC DATA

BETA = -5.090 ELEVON = .000
AHLRON = 2.580 BOFLAP = -7.170

RUN NO. 170 / 0 R/V/L = 4.22 GRADIENT INTERVAL = -5.00 / 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PSS/P	PS7/P
1.198	.102	-4.97120	1988.80000	821.89000	1.60410	1.25930	1.28430	1.05630	.67560	.64920	.63240
1.200	2.178	-4.96850	1988.80000	820.50000	1.60740	1.25820	1.29680	1.07850	.67790	.65070	.63220
1.199	4.278	-4.96650	1988.80000	821.20000	1.60480	1.24940	1.30510	1.08950	.67900	.65600	.63560
1.198	8.545	-4.94420	1988.80000	824.68000	1.58870	1.23020	1.29750	1.05330	.66990	.63680	.62750
1.195	10.698	-4.93280	1988.80000	825.37000	1.57580	1.21070	1.28420	1.01480	.65800	.62220	.61040
1.196	12.856	-4.94070	1991.00000	825.39000	1.56420	1.19290	1.26070	1.00030	.65870	.61560	.60520
1.197	15.028	-4.97710	1990.50000	823.99000	1.54890	1.16880	1.25500	.98790	.65170	.60810	.58780
1.198	17.189	-4.95200	1999.60000	825.07000	1.52890	1.14720	1.25630	.97310	.63840	.57930	.57650
1.198	21.589	-4.95860	1992.39000	825.09000	1.47760	1.09080	1.19440	.94490	.62580	.59880	.55990
1.196	GRADIENT	.00113	.00000	-.16422	.00016	-.00237	.00498	.00795	.00081	.00183	.00077

RUN NO. 171 / 0 R/V/L = 4.21 GRADIENT INTERVAL = -5.00 / 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PSS/P	PSS/P	PS7/P
1.404	.078	-4.97920	2039.80000	636.90000	1.86478	1.41000	1.33990	1.02990	.59660	.56790	.57200
1.402	4.234	-4.97250	2038.39999	639.13000	1.85950	1.38990	1.34890	1.03870	.60530	.57800	.57640
1.400	8.490	-4.93810	2039.80000	641.32000	1.84190	1.34950	1.33790	1.03100	.60490	.58070	.54600
1.399	10.633	-4.94760	2039.80000	642.06000	1.82710	1.32680	1.33460	1.03420	.60190	.57420	.53510
1.400	12.779	-4.95450	2039.80000	641.32000	1.81650	1.31110	1.33260	1.03120	.59130	.54330	.51640
1.398	14.946	-4.97770	2040.50000	642.78000	1.79010	1.28390	1.33140	1.01570	.58340	.53580	.48510
1.397	17.102	-4.95930	2041.20000	644.24000	1.76778	1.25970	1.32270	1.00180	.57610	.55590	.46600
1.391	21.449	-4.97150	2040.50000	649.41000	1.70080	1.20140	1.29790	.96970	.56730	.48180	.50230
	GRADIENT	.00161	-.33691	.53665	-.00116	-.00484	.00217	.00214	.00209	.00200	.00106

TABULATED DATA - 0A16L (ARC 11-97-87-08%)

PAGE 267

ARC 11-97-87-08% 0A16L ORBITER

(AETR19) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA =
AIRLON =
-2.000 ELEVON = .000
2.500 BDFLAP = -7.170

RUN NO. 159/ 0 RW/L = 4.2% GRADIENT INTERVAL = -5.00/ 5.08

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.104	-1.87680	2616.89999	2056.79999	1.06490	1.02420	.98990	.96540	.93470	.90470	.87510
.597	2.124	-1.85230	2613.89999	2056.79999	1.06570	1.02480	.99340	.96960	.93870	.90870	.87910
.597	4.172	-1.84450	2616.89999	2056.79999	1.06770	1.02720	.99710	.97280	.94190	.91190	.88230
.596	6.250	-1.83580	2616.89999	2057.60001	1.06770	1.02560	.99970	.97490	.94400	.91400	.88440
.595	8.337	-1.82540	2616.89999	2057.60001	1.06570	1.02300	1.00040	.97460	.94370	.91370	.88410
.595	10.446	-1.81580	2616.89999	2057.60001	1.06190	1.01810	.99930	.97350	.94260	.91260	.88300
.595	12.572	-1.80620	2616.89999	2057.60001	1.05530	1.01390	.99770	.97250	.94160	.91160	.88200
.597	14.669	-1.79660	2616.89999	2057.60001	1.04850	1.00690	.99360	.96830	.93740	.90740	.87780
.597	16.803	-1.78690	2619.00000	2057.60001	1.03990	.99830	.98930	.96400	.93310	.90310	.87350
.597	18.935	-1.77730	2619.00000	2057.60001	1.02940	.98780	.98300	.95770	.92680	.89680	.86720
.597	21.050	-1.76770	2619.00000	2057.60001	1.01700	.97540	.97060	.94530	.91440	.88440	.85480
.597	23.139	-1.75810	2619.70001	2057.60001	.99960	.95800	.95320	.92790	.89700	.86700	.83740
.598	25.211	-1.74850	2619.70001	2057.60001	.98820	.94660	.94180	.91650	.88560	.85560	.82600
.597	26.269	-1.73890	2619.00000	2057.60001	.97690	.93530	.93050	.90520	.87430	.84430	.81470
	GRADIENT	.00793	.00002	.00002	.00068	.00074	.00177	.00182	.00820	.00005	.00049

RUN NO. 162/ 0 RW/L = 4.2% GRADIENT INTERVAL = -5.00/ 5.08

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.078	-1.87970	2124.60001	1256.60001	1.19950	1.09910	.99730	.93080	.88600	.85850	.83720
.902	2.149	-1.87200	2126.79999	1256.60001	1.20210	1.10420	1.01230	.94460	.89240	.87360	.85230
.903	4.235	-1.86680	2126.20001	1254.50000	1.20530	1.10520	1.02310	.95720	.88690	.87260	.85130
.901	6.349	-1.86190	2126.20001	1257.30003	1.20280	1.10208	1.03270	.96860	.89380	.87730	.85600
.902	8.464	-1.85630	2126.79999	1255.20000	1.20010	1.09720	1.03810	.97560	.89100	.87190	.85060
.899	10.562	-1.84370	2126.79999	1256.80000	1.19020	1.08790	1.04020	.97850	.88530	.86940	.84810
.903	12.742	-1.84190	2127.50000	1254.50000	1.18560	1.07850	1.04420	.98200	.87530	.85670	.83540
.900	14.860	-1.83010	2127.50000	1257.30000	1.16930	1.06120	1.03790	.97490	.85700	.84300	.82170
.899	17.024	-1.81940	2126.79999	1257.30000	1.15310	1.04460	1.03600	.97410	.84780	.83240	.81110
.899	19.200	-1.80710	2127.50000	1259.50000	1.13170	1.01970	1.02560	.96490	.83770	.82230	.80100
.899	21.341	-1.79610	2126.79999	1259.50000	1.10530	.99490	1.01220	.95280	.82560	.81020	.78890
.903	23.442	-1.78570	2127.50000	1257.30000	1.08460	.97070	.99990	.93960	.81240	.79700	.77570
.899	25.490	-1.77530	2127.50000	1256.70000	1.05660	.94370	.98320	.92290	.79570	.78030	.75900
.903	26.503	-1.76490	2124.60001	1255.89999	1.04110	.92820	.97490	.91460	.78740	.77200	.75070
	GRADIENT	.00277	.86587	.00002	.00140	.00147	.00621	.00635	.00827	.00098	.00057

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OF POOR QUALITY

1AETRI9* (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2627.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILERON = 2.500 BDFLAP = -7.170

RUN NO. 169/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.200	.080	-1.88630	1992.39999	821.92000	1.52120	1.34240	1.23690	1.08660	.68270	.65620	.66010
1.199	.248	-1.87220	1990.30000	821.90000	1.52040	1.34060	1.23570	1.11690	.68060	.65760	.65970
1.197	.836	-1.84220	1991.70000	824.69000	1.50870	1.31450	1.24820	1.09660	.67400	.65090	.63820
1.199	10.700	-1.83130	1991.70000	823.30000	1.49790	1.30070	1.23060	1.05320	.67110	.64860	.62930
1.196	12.850	-1.83720	1991.70000	825.39000	1.48930	1.28100	1.20820	1.05180	.66220	.64490	.61690
1.197	15.004	-1.87320	1993.60001	823.29000	1.46680	1.25760	1.19170	1.03740	.64870	.64160	.59250
1.196	17.219	-1.91640	1993.30000	824.68000	1.44450	1.22540	1.17280	1.02570	.63550	.62240	.58300
1.196	21.550	-1.87850	1992.39999	823.31000	1.39130	1.17610	1.13080	1.00700	.62730	.61720	.53060
1.198	GRADIENT	.00330	-50380	-80480	-00019	-00187	00475	00727	-00050	00034	-00034

RUN NO. 172/ 0 RN/L = 4.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.401	.049	-1.88950	2039.10001	639.86000	1.74340	1.49770	1.25150	1.08350	.61000	.57910	.58610
1.401	4.264	-1.88080	2039.80000	639.85000	1.74510	1.47710	1.26970	1.09390	.61270	.58820	.58070
1.397	8.569	-1.87690	2039.10001	644.27000	1.71710	1.43800	1.25450	1.08640	.60920	.56940	.55610
1.396	10.750	-1.85890	2039.80000	644.27000	1.70580	1.41550	1.24530	1.08850	.60350	.56130	.53750
1.397	12.878	-1.84320	2039.80000	643.53000	1.68990	1.39910	1.24990	1.08730	.59440	.56120	.52320
1.398	14.971	-1.84360	2040.50000	642.78000	1.67280	1.37960	1.24430	1.08000	.59190	.56490	.51050
1.398	17.101	-1.82320	2039.10001	642.81000	1.64740	1.36130	1.22680	1.07580	.58070	.56370	.49590
1.398	21.408	-1.84740	2041.20000	644.98000	1.58660	1.31830	1.19890	1.05310	.58210	.57100	.46530
1.396	GRADIENT	.00211	.16510	-80237	.00040	-00489	00432	00197	00064	00216	-00128

(AE7R28) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .008
AIRLON = 2.500 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0390

RUN NO. 158/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.094	.16180	2616.20001	2056.10001	1.05040	1.03690	.98170	.97310	.95820	.94670	.93970
.597	2.118	.20970	2616.20001	2056.10001	1.05190	1.04000	.98850	.97900	.95820	.94740	.93820
.597	4.175	.20940	2616.89999	2056.10001	1.05200	1.04130	.98830	.97900	.95560	.94870	.93550
.596	6.242	.21410	2616.89999	2057.60001	1.05130	1.03950	.99060	.98200	.95620	.94760	.93760
.597	8.335	.22150	2617.60001	2057.60001	1.05020	1.03820	.99160	.98300	.95490	.94720	.93710
.597	10.433	.22150	2617.60001	2057.60001	1.04710	1.03430	.99050	.98310	.95520	.94720	.93730
.598	12.526	.21770	2617.60001	2058.29999	1.04480	1.02840	.98770	.98090	.95330	.94830	.93700
.596	14.643	.22280	2618.29999	2058.29999	1.04420	1.02660	.98500	.97810	.95370	.94760	.93700
.597	16.768	.22660	2619.00000	2057.60001	1.04180	1.02060	.97890	.97390	.95100	.94850	.94030
.597	18.883	.21080	2619.00000	2058.29999	1.03420	1.01090	.97480	.97070	.94710	.94850	.93400
.597	21.001	.21590	2619.00000	2058.29999	1.02800	.98790	.96780	.96300	.93680	.94110	.93330
.597	23.094	.21520	2619.00000	2059.00000	1.00950	.97300	.95780	.95350	.92740	.94190	.91470
.598	25.174	.20850	2619.00000	2057.60001	.96990	.95760	.94800	.94600	.91940	.92580	.90910
.597	26.187	.20850	2619.00000	2058.29999	.96060	.94750	.94110	.94030	.91940	.92580	.90910
	GRADIENT	.01163	.17197	.80002	.00039	.00108	.00161	.00144	.00010	.00049	.00019

RUN NO. 163/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.066	.17790	2125.29999	1255.89999	1.18990	1.13090	.97590	.94690	.88260	.86620	.88130
.901	2.145	.21950	2125.29999	1255.20000	1.18740	1.13740	.99140	.96100	.88000	.87220	.88590
.900	4.245	.22010	2126.10001	1257.30000	1.18600	1.13680	1.00270	.97360	.89010	.87570	.88880
.903	6.352	.21270	2126.10001	1256.60001	1.17020	1.13760	1.01500	.98600	.89690	.88040	.89580
.899	8.471	.22370	2126.10001	1258.80000	1.16320	1.13070	1.01800	.99270	.89650	.87410	.89400
.900	10.606	.22370	2126.10001	1258.80000	1.15690	1.12370	1.02120	.98890	.88260	.86580	.88510
.899	12.727	.21760	2126.10001	1258.00000	1.15160	1.11240	1.02250	.98800	.87520	.86070	.87830
.897	14.861	.22330	2126.10001	1258.00000	1.14810	1.09680	1.01680	.98590	.85970	.84590	.85160
.899	17.007	.22330	2126.10001	1258.80000	1.14810	1.08950	1.01500	.98480	.85040	.83390	.84750
.899	19.199	.22380	2126.79999	1259.50000	1.09510	1.05870	1.00150	.98730	.80760	.81870	.83280
.901	21.393	.20810	2127.50001	1256.60001	1.04710	1.02490	.99930	.97320	.79250	.81440	.81440
.895	23.581	.20310	2126.79999	1256.20000	1.04710	1.00660	.99370	.96650	.77480	.76020	.75080
.908	25.460	.19730	2126.79999	1256.00000	1.02030	.98250	.95970	.94840	.75050	.71380	.73080
.901	26.483	.21230	2126.79999	1255.89999	1.00170	.96240	.94760	.93980	.73950	.71360	.72370
	GRADIENT	.01008	.19173	.33611	.00026	.00141	.00541	.00639	.00179	.00227	.00179

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 2.509 BDFLAP = -7.170

REFERENCE DATA

SREF = 2898.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8060 IN. YMRP = .0000 IN. YO
BREF = 936.8908 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.200	.044	.28020	1997.00000	821.21000	1.46990	1.39900	1.20240	1.11830	.68860	.65670	.67400
1.199	4.263	.21160	1989.60001	821.20000	1.46170	1.39030	1.20460	1.13920	.68780	.65098	.66310
1.198	6.395	.21680	1990.30001	823.20000	1.46840	1.38280	1.23330	1.14360	.68660	.65220	.65580
1.195	8.547	.22870	1992.39999	825.75000	1.44360	1.36790	1.21390	1.11950	.68000	.64080	.64600
1.194	10.714	.23180	1991.00000	827.48000	1.43360	1.35600	1.19950	1.09680	.67190	.62740	.63720
1.192	12.867	.23170	1991.00000	827.00000	1.42580	1.34050	1.16700	1.08050	.66480	.62420	.62420
1.190	15.026	.22490	1991.00000	823.30000	1.40660	1.32040	1.14570	1.07430	.64760	.60830	.59830
1.188	17.194	.21840	1991.00000	823.99000	1.38320	1.29580	1.12720	1.06560	.63280	.59380	.57530
1.186	21.495	.20580	1995.50000	824.72000	1.32690	1.23700	1.08000	1.04580	.61960	.56830	.54460
1.183	25.723	.00278	1995.20000	824.02000	1.26310	1.18510	1.03120	1.02810	.60150	.50720	.52080
	GRADIENT				.00043	-.00206	.08526	.00495	-.00019	.00103	-.00258

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.403	.034	.20070	2070.20001	648.10800	1.67470	1.56790	1.20280	1.12580	.62180	.59540	.60450
1.402	4.266	.17440	2069.50000	648.85000	1.67520	1.55110	1.21910	1.13880	.62500	.59550	.59610
1.400	6.416	.19230	2070.20001	650.32000	1.68040	1.53420	1.22340	1.13650	.62490	.59610	.58410
1.399	8.586	.17290	2070.20001	652.53000	1.64920	1.51210	1.20800	1.13000	.61680	.57510	.56850
1.398	10.764	.17840	2070.20001	652.53000	1.63450	1.49350	1.19890	1.12710	.61580	.57840	.55910
1.398	12.927	.17820	2070.89999	652.52000	1.61900	1.47610	1.20320	1.13340	.60740	.58650	.54000
1.398	15.089	.16060	2070.89999	651.78000	1.59910	1.45200	1.18830	1.12860	.59580	.50400	.51600
1.399	17.254	.17900	2070.20001	652.53000	1.57040	1.42990	1.16980	1.12490	.58698	.50260	.50260
1.393	21.551	.25640	2070.20001	656.96000	1.51010	1.38420	1.12930	1.10500	.58560	.49470	.47080
1.384	25.777	.21760	2070.89999	665.07000	1.43170	1.32480	1.09200	1.06320	.56240	.49470	.44460
	GRADIENT				.00012	-.00387	.00385	.00295	.00099	.00002	-.00199

(AETRE21) (02 AUG 75)

TABULATED DATA - OAMEJ (ARC 11-97-87-094)

ARC 11-97-87-094 OAMEJ ORIGINER

REFERENCE DATA

SPEF = 2690.0000 SO. FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = 2.500 BDFLAP = -7.170

RUN NO. 157/ 0. RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PF	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.596	.081	2.25050	2616.89999	2058.29999	1.03550	1.05290	.97450	.97950	.95430	.94630	.95640
.596	2.124	2.28130	2617.60001	2058.29999	1.03810	1.05550	.97810	.98470	.95520	.94640	.96740
.596	4.184	2.29490	2617.60001	2058.29999	1.03650	1.05600	.98080	.98740	.95460	.94630	.95550
.596	6.268	2.30590	2617.60001	2059.00000	1.03620	1.05560	.98120	.99090	.95300	.94620	.95350
.596	8.356	2.31260	2617.60001	2058.29999	1.03450	1.05300	.98200	.99120	.95350	.94770	.95730
.596	10.465	2.32710	2618.29999	2059.00000	1.03050	1.04890	.98100	.99240	.95450	.94710	.95350
.597	12.521	2.31880	2619.00000	2059.00000	1.02850	1.04420	.97880	.99240	.95350	.94710	.95580
.597	14.760	2.29970	2619.00000	2058.29999	1.01830	1.03580	.97610	.98730	.95340	.94490	.95250
.597	16.900	2.29780	2619.00000	2058.29999	1.00840	1.02480	.96930	.98330	.95030	.94080	.94540
.597	19.010	2.29080	2619.00000	2059.00000	.99810	1.01400	.96340	.97140	.94150	.92770	.92880
.596	21.099	2.27910	2619.00000	2059.70001	.98510	1.00170	.95530	.96770	.93890	.92650	.91900
.596	23.181	2.28970	2618.00000	2059.70001	.97180	.98990	.94890	.95610	.92490	.91540	.91540
.596	25.229	2.31070	2619.00000	2058.70001	.95380	.97330	.93520	.95270	.91940	.92440	.91100
.597	26.228	2.31370	2619.00000	2057.60001	.94470	.96600	.93170	.95270	.91000	.92440	.91100
GRADIENT		.01081	.17037	.00000	.00024	.00075	.00154	.00192	.00007	.00003	.00022

RUN NO. 164/ 0. RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PF	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.058	2.20440	2125.29999	1256.66001	1.13040	1.16880	.96120	.96610	.88680	.86860	.88490
.900	2.147	2.30800	2126.10001	1255.89999	1.13390	1.17140	.97230	.98090	.89060	.87080	.88730
.900	4.257	2.31500	2126.10001	1256.66001	1.13380	1.17360	.98290	.99160	.88990	.87210	.88540
.899	6.371	2.32650	2126.10001	1258.00000	1.13360	1.16930	.99370	1.00390	.89370	.87550	.89070
.899	8.500	2.32670	2126.10001	1257.30000	1.12910	1.16730	1.00040	1.01400	.89140	.87800	.89380
.900	10.633	2.32890	2126.10001	1256.60001	1.12290	1.15970	1.00330	1.02070	.88190	.86570	.88290
.899	12.793	2.31530	2126.10001	1258.00000	1.11540	1.15100	1.00320	1.02150	.86880	.85000	.87250
.901	14.961	2.34110	2126.79999	1255.89999	1.10050	1.13530	1.00010	1.02410	.85010	.84260	.86520
.899	17.122	2.34810	2126.10001	1258.00000	1.08240	1.11640	.99030	1.01590	.85010	.83220	.85590
.900	19.275	2.33550	2126.79999	1259.00000	1.05980	1.09510	.97970	1.00920	.83390	.80930	.83730
.901	21.391	2.31830	2127.50000	1256.60001	1.03380	1.07280	.96860	1.00210	.81370	.78980	.81960
.900	23.443	2.31920	2127.50000	1258.00000	1.00610	1.04390	.94870	.98580	.78740	.75740	.77540
.900	25.503	2.33210	2127.50000	1257.30000	.98200	1.02120	.93410	.97550	.74890	.71930	.73440
.900	26.516	2.33590	2126.79999	1257.30000	.95960	1.00590	.92030	.96690	.74530	.70490	.71820
GRADIENT		.00752	.19022	.00056	.00083	.00133	.00517	.00607	.00074	.00131	.00072

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT XMRP = 1076.6800 IN. XO.
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.008 ELEVON = .000
 ALLRON = 2.500 BOFLAP = -7.170

1AETR211 (02 AUG 76)

RUN NO. 167/ 0 RW/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.044	2.28870	1993.10000	822.62000	1.40150	1.45920	1.17850	1.14950	.67750	.65090	.66890
1.200	4.270	2.29620	1983.10981	819.80080	1.40810	1.45640	1.20278	1.18230	.68290	.65290	.68468
1.198	8.574	2.31460	1991.02000	823.30000	1.39568	1.43810	1.18950	1.16940	.68050	.63360	.64340
1.197	10.736	2.32230	1991.70000	824.69000	1.38140	1.42170	1.14120	1.11820	.68610	.61700	.63900
1.195	12.917	2.31050	1991.00000	826.08000	1.36560	1.40120	1.12020	1.11520	.65300	.60730	.62070
1.192	15.090	2.34800	1991.00000	822.60000	1.35300	1.38650	1.10550	1.12370	.65170	.60120	.59970
1.197	17.307	2.34940	1991.70000	824.69000	1.32460	1.35650	1.08520	1.11820	.63930	.59280	.58130
1.200	21.592	2.32530	1994.50000	822.63000	1.26840	1.30290	1.03830	1.09968	.63400	.57570	.56760
GRADIENT		.00035	-1.18315	-.66730	.00156	-.00066	.06762	.00776	.00189	.00047	-.00102

RUN NO. 174/ 0 RW/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.402	.065	2.32070	2070.20001	648.84000	1.60238	1.64270	1.15180	1.17780	.61360	.58230	.61088
1.401	4.277	2.31840	2070.88999	649.57000	1.60390	1.62770	1.17790	1.19130	.61530	.57570	.60760
1.398	6.574	2.29500	2068.79999	651.82000	1.57970	1.59490	1.15940	1.18470	.62220	.57470	.57140
1.398	10.709	2.24200	2068.50000	652.94000	1.56350	1.57310	1.15780	1.18250	.60950	.56970	.59630
1.397	12.814	2.25640	2068.79999	653.30000	1.54640	1.55240	1.15020	1.18410	.59720	.60130	.54340
1.400	14.957	2.29730	2069.50000	650.33000	1.53040	1.54100	1.13940	1.19810	.60100	.57860	.53230
1.399	17.138	2.33230	2068.50000	651.07000	1.50050	1.51900	1.10990	1.18870	.59090	.59090	.51750
1.397	21.449	2.31799	2070.88999	653.99000	1.43990	1.46360	1.06340	1.16430	.58650	.48800	.49340
GRADIENT		-.00055	.16619	.17331	.00038	-.00356	.06620	.00326	-.00157	-.00040	-.60076

(AETRE22) (02 AUG 78)

PARAMETRIC DATA

BETA = 3.000 ELEVON = .000
AILRON = 2.500 BDFLAP = -7.770

TABULATED DATA - CASE 11-97-87-084 (ARC 11-97-87-084)

ARC 11-97-87-084 CASE 11-97-87-084

REFERENCE DATA

SEEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0680 IN. ZO
SCALE = .0300

RUN NO. 155# 0 RV/L = 4.2% GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.110	5.35980	2618.29999	2058.29999	1.01350	1.07460	.96220	.99210	.95310	.94300	.96330
.596	.2143	5.37790	2617.60000	2058.29999	1.01630	1.07710	.96830	.99820	.96360	.94320	.95420
.595	4.210	5.38340	2616.89999	2058.29999	1.01490	1.07850	.97060	1.00060	.96380	.94350	.95480
.595	6.296	5.38590	2617.60001	2058.29999	1.01550	1.07830	.97130	1.00300	.96420	.94380	.95520
.595	8.387	5.39440	2617.60001	2059.70001	1.01230	1.07490	.96990	1.00500	.96410	.94290	.95430
.595	10.511	5.39890	2618.29999	2059.39999	1.00960	1.07120	.96960	1.00420	.96410	.94540	.95430
.596	12.639	5.39840	2619.00000	2060.39999	1.00540	1.06420	.96360	1.00570	.96390	.94390	.95230
.596	14.755	5.38100	2618.29999	2061.10001	.99570	1.05800	.96110	1.00350	.96280	.94350	.95100
.595	16.860	5.37850	2618.29999	2060.39999	.98510	1.04920	.95420	.99770	.96070	.94300	.94740
.595	18.977	5.38290	2618.29999	2058.29999	.97610	1.03970	.94970	.98530	.95410	.94100	.94300
.597	21.076	5.38830	2618.29999	2058.70001	.96210	1.02740	.94230	.98100	.94330	.92190	.93520
.596	23.166	5.39610	2619.00000	2058.29999	.94728	1.01320	.92330	.97680	.93690	.91780	.92750
.597	25.221	5.41450	2619.00000	2059.00000	.93020	.99940	.92230	.97680	.93690	.91110	.92080
.597	26.176	5.43380	2619.00000	2058.29999	.92980	.99270	.91730	.97230	.91960	.91488	.90860
.597	GRADIENT	.00575	.34142	.00004	.00034	.00095	.00205	.00207	.00017	.00015	.00037

RUN NO. 155/ 0 RV/L = 4.2% GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.899	.069	5.38660	2125.29999	1257.30000	1.08050	1.23060	.93940	.99660	.88360	.86260	.87500
.900	2.160	5.40230	2127.50000	1257.30000	1.08180	1.23700	.95200	1.01110	.88440	.86200	.87640
.900	4.271	5.41240	2126.79999	1257.30000	1.08390	1.23510	.96280	1.02320	.88560	.86540	.88120
.901	6.389	5.41300	2126.79999	1255.20000	1.08400	1.23460	.97320	1.03420	.89080	.86970	.88140
.901	8.518	5.41510	2126.79999	1255.20000	1.08400	1.23050	.97760	1.04230	.89090	.86890	.88440
.899	10.659	5.40590	2127.50000	1255.89999	1.07510	1.21180	.97710	1.05040	.89100	.86820	.87780
.901	12.795	5.41050	2126.79999	1255.89999	1.06770	1.20200	.97710	1.05410	.89100	.86500	.87390
.901	14.945	5.43020	2128.20001	1256.60001	1.04340	1.18740	.96210	1.05510	.89400	.86270	.86690
.899	17.076	5.45140	2128.20001	1250.20000	1.02400	1.16850	.95040	1.04950	.89300	.86030	.86130
.901	19.234	5.45150	2128.20001	1259.00000	1.00590	1.15230	.95040	1.04670	.89300	.85840	.86300
.899	21.337	5.46930	2126.79999	1259.00000	.97990	1.12880	.93560	1.03710	.89200	.85330	.87690
.899	23.433	5.45320	2126.79999	1257.30000	.95700	1.10600	.91960	1.02800	.89140	.84820	.87500
.901	25.479	5.45430	2126.79999	1256.60001	.93460	1.08150	.90270	1.01890	.89140	.84110	.87650
.901	26.493	5.46750	2124.60001	1255.20000	.90700	1.06670	.89010	1.01130	.89140	.83310	.87420
.901	GRADIENT	.00614	.35584	.00001	.00001	.00107	.00557	.00633	.00143	.00304	.00148

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TABULATED DATA - OAT161 (ARC 11-97-87-094)

(AE78227 (02 AUG 76)

ARC 11-97-87-094 OAT161 ORBITER

REFERENCE DATA

SPEE = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8600 IN. YMRP = .0000 IN. Y0
 SPEE = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = 5.000 ELEVON = .000
 AILRON = 2.500 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.290	.074	5.40040	1990.30000	820.51000	1.32720	1.55820	1.14320	1.21070	.67910	.64930	.65840
1.198	4.297	5.42110	1985.00000	821.18000	1.32450	1.54480	1.17040	1.23640	.68530	.65050	.66810
1.199	8.598	5.41080	1985.89999	824.73000	1.31480	1.53150	1.12980	1.22050	.68410	.62940	.63710
1.198	10.767	5.39550	1990.30000	822.60000	1.30680	1.51720	1.10830	1.19460	.66510	.61850	.63080
1.195	12.921	5.41080	1990.30000	826.08000	1.29310	1.49070	1.05770	1.17630	.65590	.61240	.62430
1.195	15.083	5.42650	1993.80000	825.41000	1.26750	1.47650	1.03580	1.17540	.65550	.59380	.61660
1.197	17.241	5.45790	1993.30000	823.99000	1.24040	1.45450	1.01730	1.17710	.65800	.57320	.59380
1.197	21.551	5.45620	1995.29000	828.90000	1.17800	1.39780	.96480	1.16080	.62520	.55380	.59550
1.194	GRADIENT	.03490	-1.01820	.15865	-1.00062	-1.03117	.00644	.00609	.00147	.00128	.00230

RUN. NO. 1664 0 RVAL = 4.22 GRADIENT INTERVAL = -5.004 5.00

RUN. NO. 175 0 RVAL = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.333	.085	5.43150	2068.10001	654.10000	1.59010	1.78580	1.09350	1.25530	.60310	.56830	.57650
1.369	4.292	5.42220	2068.10001	660.36000	1.51350	1.75310	1.10680	1.26380	.60870	.56890	.60020
1.368	8.555	5.38160	2068.10001	651.83000	1.48520	1.72770	1.09190	1.26390	.60270	.55510	.57120
1.398	10.681	5.38660	2068.79999	651.82000	1.46500	1.70400	1.09850	1.26450	.62220	.55220	.59900
1.397	12.806	5.40500	2068.79999	653.33000	1.44590	1.69130	1.08190	1.26040	.53810	.52250	.53900
1.397	14.957	5.41740	2068.79999	662.56000	1.42120	1.67090	1.05650	1.27160	.58930	.50240	.52320
1.396	17.123	5.42500	2068.10001	653.31000	1.39890	1.64880	1.03570	1.27760	.58780	.49060	.51460
1.397	21.438	5.44700	2070.89999	653.26000	1.33270	1.59890	.98360	1.26350	.58920	.57230	.49770
1.397	GRADIENT	-.00221	.00000	-.17550	.00319	-.00302	.00314	.00262	.08133	-.00033	.00516

(AE7R23) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRPON = 5.000 BDFLAP = -7.170

TABULATED DATA - DATA (ARC 11-97-87-09+)

ARC 11-97-87-09+ DATA ORBITER

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0400 IN. ZO
 SCALE = .0300

RUN NO. 201/ 0 RML = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.144	-4.92550	2631.0000	2668.2000	1.08500	1.00250	.99980	.96720	.95550	.94610	.93680
.596	.207	-4.92540	2629.6000	2668.2000	1.08800	1.00410	1.00970	.96350	.95500	.94730	.93860
.595	8.370	-4.91020	2629.6000	2669.6000	1.08620	1.00250	1.01080	.96180	.95630	.94700	.93840
.596	10.478	-4.89320	2630.2999	2668.8999	1.08240	.99750	1.01140	.96400	.95610	.94980	.93920
.596	12.589	-4.87110	2630.2999	2668.2000	1.07750	.99150	1.00960	.96150	.95300	.94720	.93700
.595	14.689	-4.86330	2630.2999	2670.2999	1.06940	.98430	1.00830	.96000	.95150	.94420	.93570
.595	16.786	-4.86330	2630.2999	2659.6000	1.06040	.97560	1.00430	.95230	.94780	.94560	.93790
.594	21.028	-4.85980	2631.0000	2672.3999	1.05620	.96060	.98220	.93890	.93100	.94090	.93850
GRADIENT		-.00047	-.34452	.00000	.00074	.00037	.00241	.00155	-.00012	.00030	.00844

RUN NO. 200/ 0 RML = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.112	-4.94600	2407.0000	1245.3000	1.24540	1.05070	1.02300	.90910	.89000	.85250	.83330
.899	4.265	-4.94410	2407.0000	1245.3000	1.25310	1.05660	1.05390	.90910	.89140	.85250	.83330
.899	6.377	-4.93360	2404.7999	1246.0000	1.25730	1.09310	1.05210	.91640	.89290	.87340	.85040
.898	8.491	-4.93620	2407.7000	1245.3000	1.24880	1.04730	1.06220	.91420	.88740	.86900	.85010
.898	10.619	-4.93140	2404.7999	1245.6000	1.24140	1.04110	1.06910	.91580	.88900	.86670	.84780
.899	12.739	-4.91670	2406.2000	1246.0000	1.2370	1.04740	1.06500	.91470	.88310	.85950	.84750
.899	14.875	-4.92380	2407.0000	1246.0000	1.21520	1.01170	1.07700	.91260	.88200	.84750	.83500
.899	17.005	-4.92660	2405.5000	1246.0000	1.20140	.99560	1.06770	.91100	.88260	.84750	.83500
.899	21.308	-4.95370	2407.0000	1246.0000	1.19820	.94300	1.04800	.92950	.82900	.79840	.78630
GRADIENT		-.00155	.00001	.00000	.00185	.00142	.00744	.00669	.00858	.00142	.00202

RUN NO. 191/ 0 RML = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.580	.121	-4.95340	2064.5000	1116.3999	1.33210	1.10220	1.07580	.93240	.90160	.77520	.81090
.581	4.290	-4.95340	2064.5000	1116.3999	1.34000	1.10790	1.10850	.97100	.90280	.78920	.80330
.579	8.556	-4.92330	2064.5000	1118.5000	1.32900	1.09580	1.11650	.97860	.79150	.76560	.79330
.580	10.761	-4.91890	2063.7999	1116.3999	1.32560	1.08800	1.12600	.93130	.79210	.76560	.79330
.578	12.849	-4.91930	2065.2000	1119.2000	1.30830	1.07410	1.11950	.99190	.78550	.76770	.79590
.578	15.002	-4.92750	2065.8999	1119.8999	1.29380	1.07410	1.12500	.98570	.78600	.75340	.77210
.573	17.150	-4.93310	2065.2000	1119.8999	1.27700	1.07410	1.12500	.98570	.78600	.75340	.77210
.577	21.473	-4.94270	2067.3999	1117.1000	1.27100	.93730	1.09780	.95570	.72600	.73930	.74240
.580	GRADIENT	-.00567	.58374	-.02398	.00189	.00137	.00784	.00934	.00829	.00058	-.00182

TABULATED DATA - QAI61 (ARC 11-97-87-094)

(AETR23) (02 AUG 76)

ARC 11-97-87-094 QAI61 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
 SCALE = .0300

BETA =
 ALLRON =

ELEVON = .000
 BOFLAP = -7.170

RUN NO. 190/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PSW/P	PS5/P	PS6/P	PS7/P
1.103	.111	-4.94150	2019.30000	942.63000	1.49610	1.21700	1.20670	1.01440	.71590	.68740	.69780
1.102	.4.300	-4.96170	2019.50000	943.32000	1.50340	1.21450	1.20420	1.01440	.71440	.68660	.69730
1.102	8.588	-4.93290	2020.70000	944.04000	1.48820	1.19750	1.24000	1.05640	.70300	.67750	.67800
1.093	10.723	-4.91710	2020.00000	946.81000	1.47860	1.17940	1.23820	1.07550	.69430	.67660	.65970
1.098	12.874	-4.90250	2018.50000	946.81000	1.46820	1.16250	1.23800	1.07670	.68560	.66560	.65360
1.098	15.052	-4.93140	2018.50000	942.62000	1.44280	1.14050	1.24160	1.06730	.68720	.66280	.65930
1.102	17.217	-4.94200	2019.30000	945.42000	1.41950	1.11020	1.22330	1.07000	.68350	.64030	.63900
1.100	21.538	-4.95300	2015.70000	943.99000	1.37180	1.06440	1.17970	.93640	.66350	.64470	.59420
1.100	GRADIENT	-.00220	-.19029	.15472	.00174	-.00650	.00556	.00847	-.98036	.0029	.10053

RUN NO. 181/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PSW/P	PS5/P	PS6/P	PS7/P
1.198	.112	-4.99250	2017.10001	833.92000	1.80660	1.26310	1.28520	1.02730	.87950	.84900	.87750
1.193	.4.283	-4.95110	2017.80000	833.23000	1.60550	1.24980	1.30540	1.09160	.88230	.85500	.88010
1.201	8.581	-4.92890	2017.80000	831.15000	1.59430	1.23270	1.30850	1.05370	.87170	.84270	.82440
1.195	10.718	-4.94000	2019.30000	836.72000	1.58120	1.21170	1.28150	1.01870	.86940	.84700	.80340
1.195	12.875	-4.92690	2018.50000	837.44000	1.56250	1.19530	1.28220	1.00050	.85410	.81120	.59840
1.195	15.052	-4.94550	2019.30000	837.42000	1.54670	1.17130	1.25290	.98540	.84740	.83140	.58760
1.195	17.214	-4.94650	2019.30000	838.11000	1.52380	1.14480	1.23600	.96800	.83090	.59090	.56710
1.195	21.537	-4.95200	2021.39993	834.65000	1.47730	1.09610	1.19470	.94690	.83620	.63150	.55680
1.199	GRADIENT	-.00513	.16783	-.16543	-.00026	-.00319	.00477	.00822	.00072	.00168	.00062

RUN NO. 180/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PSW/P	PS5/P	PS6/P	PS7/P
1.400	.071	-4.95610	2068.79999	649.61000	1.85970	1.40570	1.33910	1.02810	.59650	.58450	.57320
1.400	.4.232	-4.99930	2067.79999	649.64000	1.85700	1.38860	1.35170	1.03790	.60290	.58200	.57930
1.395	8.495	-4.93200	2068.10001	653.31000	1.83660	1.34880	1.33660	1.03230	.60950	.59050	.54150
1.397	10.642	-4.95280	2068.79999	652.56000	1.82750	1.32640	1.33070	1.03460	.60130	.58170	.53550
1.397	12.792	-4.95330	2068.10001	652.57000	1.80770	1.30470	1.32590	1.02670	.59280	.54140	.51390
1.397	14.958	-4.94200	2068.79999	652.56000	1.78950	1.28360	1.33320	1.01510	.58740	.53660	.49510
1.399	17.119	-4.97320	2068.79999	651.08000	1.76820	1.26490	1.32300	1.00540	.58440	.54330	.47680
1.400	21.459	-4.98100	2068.79999	649.61001	1.71530	1.21720	1.30732	.97750	.58100	.50470	.49460
1.400	GRADIENT	-.00754	-.33648	.00721	-.00065	-.00411	.00303	.00236	.00154	-.00060	.00147

TABULATED DATA - 0A161 (ARC 11-97-37-094)
ARC 11-97-87-094 0A161 ORBITTER

REFERENCE DATA

SREF = 2500.0000 50. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA =
ALLRON =
-2.000 ELEVON = .000
5.000 BDFLAP = -7.170

RUN NO. 2027 Q RN/L = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.596	.083	-1.83260	2620.89999	2068.20001	1.06230	1.02370	.98890	.96700	.95680	.94820	.95700
.596	4.180	-1.84670	2623.60001	2067.50000	1.06790	1.02530	.99580	.97390	.96360	.94860	.95020
.595	8.344	-1.83600	2629.60001	2068.89999	1.06510	1.02300	.99740	.97310	.96560	.94870	.95090
.595	10.455	-1.83420	2629.60001	2068.89999	1.06080	1.01980	.99690	.97260	.96530	.94910	.95080
.595	12.574	-1.82650	2629.60001	2068.89999	1.05510	1.01400	.99570	.97140	.96500	.94920	.95500
.597	14.668	-1.79550	2629.60001	2068.79999	1.04830	1.00840	.99540	.97180	.96530	.94980	.95500
.595	16.805	-1.85850	2629.60001	2068.89999	1.03930	.99640	.99330	.96590	.94850	.93140	.93310
.594	21.056	-1.85330	2629.60001	2071.00000	1.01360	.97250	.97610	.95280	.93790	.93140	.93310
GRADIENT		.00345	.17116	.17114	.00137	.00064	.00193	.00166	.00012	.00310	.00076

RUN NO. 1987 Q RN/L = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.902	.083	-1.87890	2108.39999	1243.89999	1.19510	1.10000	.99530	.93040	.88770	.86890	.86570
.901	4.240	-1.84550	2109.10001	1245.00000	1.20300	1.10570	1.02261	.95880	.89110	.87460	.86210
.900	6.360	-1.84440	2109.79999	1246.70000	1.20720	1.10090	1.03061	.96851	.89180	.87610	.86370
.900	8.467	-1.84860	2109.10001	1246.70000	1.19810	1.10050	1.03500	.97350	.89210	.87800	.86510
.899	10.607	-1.84200	2108.39999	1247.39999	1.19300	1.08800	1.03680	.97340	.88340	.86950	.86050
.900	12.737	-1.81980	2109.10001	1246.70000	1.18250	1.07850	1.04060	.98270	.87180	.85430	.84320
.902	14.865	-1.82930	2109.79999	1245.30000	1.17090	1.06750	1.04150	.98080	.86030	.84930	.84270
.899	17.033	-1.88660	2107.70001	1248.10001	1.14980	1.04380	1.03350	.97440	.84870	.83630	.82550
.902	21.347	-1.87390	2110.50000	1244.60001	1.10910	.98640	1.01250	.95770	.80390	.78950	.81000
GRADIENT		.00893	.15337	.50510	.00190	.00137	.00557	.00693	.00082	.00142	.00130

RUN NO. 1927 Q RN/L = 4.26 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.983	.065	-1.84620	2066.60001	1117.10001	1.27280	1.16190	1.04690	.96290	.79720	.77160	.81120
.980	4.264	-1.85340	2065.20001	1117.10001	1.27920	1.16490	1.05470	.99700	.80410	.78360	.80570
.979	8.541	-1.84270	2067.39999	1118.50000	1.27400	1.15480	1.08540	1.00860	.79100	.76540	.78700
.978	10.695	-1.82200	2065.20001	1119.20000	1.26360	1.14220	1.08490	1.01140	.78200	.75590	.79710
.979	12.642	-1.81610	2066.60001	1118.50000	1.25390	1.13210	1.09130	1.02170	.76990	.74140	.76810
.979	14.977	-1.84860	2065.89999	1118.50000	1.23790	1.11420	1.08950	1.01940	.75970	.73410	.75970
.978	17.179	-1.85700	2067.89999	1119.20000	1.21950	1.09230	1.08180	1.01220	.74940	.72400	.75670
.980	21.506	-1.87680	2068.10001	1117.80000	1.17300	1.04900	1.05730	.99050	.72940	.70610	.69360
GRADIENT		.00314	.13342	.00000	.00152	.00071	.00633	.00812	.00164	.00266	.00131

TABULATED DATA - OA161 (ARC 11-97-87-094)

(AE7R24) (02 AUG 76)

ARC 11-97-87-094 OA161 ORBITER

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 935.6900 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .008
 AILRON = 5.000 BDFLAP = -7.170

RUN NO. 189 0 RW/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.102	.086	-1.87890	2017.80000	942.62000	1.42860	1.28850	1.16880	1.04950	.72880	.70380	.71960
1.101	4.255	-1.86210	2019.50000	944.02000	1.43170	1.28700	1.19270	1.08500	.72660	.69780	.71270
1.101	8.559	-1.83110	2020.00000	945.42000	1.41720	1.26700	1.20100	1.10250	.68120	.65990	.68710
1.100	12.721	-1.82340	2017.80000	944.70000	1.40690	1.25750	1.20050	1.10720	.67680	.65460	.67340
1.101	10.874	-1.80790	2019.50000	944.72000	1.39080	1.23730	1.20810	1.11640	.67040	.6470	.65470
1.101	15.032	-1.84810	2018.50000	944.71000	1.37570	1.21650	1.19670	1.10400	.66710	.64380	.65900
1.100	17.257	-1.89960	2019.50000	945.42000	1.35110	1.18680	1.18100	1.09000	.66310	.63820	.65900
1.100	21.581	-1.87880	2017.10001	942.61000	1.29920	1.12970	1.12860	.99290	.65740	.63210	.65210
1.102	GRADIENT	.00402	.16750	.33501	.00074	-.00036	.00591	.00849	-.00144	-.00165	

RUN NO. 182/ 0 RW/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.050	-1.86720	2017.80000	833.23000	1.52070	1.34290	1.23590	1.09030	.68420	.65580	.67870
1.196	4.258	-1.85910	2018.39959	835.00000	1.51620	1.33130	1.25230	1.11630	.68170	.65300	.66420
1.197	8.549	-1.84430	2018.50000	836.02000	1.50630	1.31380	1.25050	1.09600	.66920	.63190	.63750
1.196	10.719	-1.81980	2017.10001	836.71000	1.49460	1.30270	1.23250	1.05480	.66320	.62770	.62730
1.195	12.869	-1.81410	2017.10001	837.40000	1.47920	1.28130	1.20460	1.04990	.65690	.61700	.61190
1.195	15.026	-1.85780	2017.10001	836.01000	1.46280	1.26100	1.18830	1.04360	.64550	.63610	.63540
1.194	17.239	-1.90250	2017.10001	838.80000	1.43710	1.22510	1.16560	1.02200	.63240	.60880	.57150
1.198	21.573	-1.87800	2020.70000	835.34000	1.38920	1.17790	1.12850	1.05610	.62820	.60430	.53050
1.198	GRADIENT	.00193	-.33273	.65835	-.00107	-.00276	.00390	.00618	-.00058	-.00067	-.00345

RUN NO. 179/ 0 RW/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.393	.048	-1.87750	2067.39999	650.37000	1.73870	1.49440	1.25000	1.08680	.61260	.59380	.58970
1.399	4.207	-1.71420	2068.10001	650.35000	1.74060	1.47980	1.26791	1.09900	.61670	.59540	.57650
1.397	8.485	-1.64820	2068.10001	652.57000	1.72130	1.44310	1.25473	1.08920	.60770	.57910	.58890
1.397	10.647	-1.83000	2069.10001	649.62000	1.71350	1.42840	1.25181	1.10000	.60830	.59160	.54460
1.398	12.788	-1.83570	2067.39999	651.11000	1.69480	1.40730	1.25253	1.09250	.59990	.62060	.52570
1.399	14.933	-1.85820	2068.10001	650.36000	1.67510	1.38250	1.24513	1.08390	.60130	.62100	.51430
1.399	17.147	-1.89520	2067.39999	650.37000	1.64950	1.36170	1.22990	1.07980	.58960	.63840	.50410
1.403	21.489	-1.88950	2068.70399	647.39060	1.59790	1.32270	1.20820	1.06020	.57720	.55710	.47660
1.403	GRADIENT	-.006	.16827	-.00240	.00046	-.00354	.00431	.00293	.00099	.00838	-.00317

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ALROM = 5.000 BDFLAP = -7.170

RUN NO. 283/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.587	.081	.21610	2628.89999	2066.79999	1.04810	1.03850	.98260	.97440	.95600	.94770	.93830
.596	4.182	.21530	2629.89999	2068.20001	1.03260	1.04110	.98850	.98120	.95580	.94790	.93760
.594	6.256	.22160	2628.89999	2070.29999	1.05290	1.03940	.98950	.98300	.95610	.94840	.93760
.593	8.349	.23020	2629.60001	2068.89999	1.05090	1.03870	.98920	.98130	.95680	.94940	.93810
.596	10.443	.22340	2629.60001	2068.20001	1.04570	1.03310	.98750	.98060	.95770	.94960	.93910
.595	12.541	.22300	2629.60001	2068.60001	1.04070	1.02770	.98870	.97950	.95480	.94930	.93880
.596	14.659	.23520	2629.60001	2069.20001	1.03360	1.02110	.98470	.97950	.95400	.94790	.93560
.597	16.776	.22710	2629.60001	2066.10001	1.01380	.98200	.97830	.97830	.95350	.94920	.93240
.597	21.025	.21880	2631.00000	2067.50000	.99980	.96600	.96600	.96480	.94090	.93240	.91830
.595	25.199	.21050	2631.00000	2069.60001	.96990	.95910	.94770	.94640	.92550	.91530	.90017
GRADIENT		.00020	.00000	.34132	.00110	.00063	.00144	.00166	.00005	.00005	.00005

RUN NO. 198/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.901	.045	.19500	2107.70001	1245.30000	1.15950	1.13420	.97980	.94880	.88800	.87130	.86840
.900	4.243	.21830	2107.70001	1246.70000	1.16780	1.13680	1.00290	.97820	.89320	.87770	.86240
.899	6.350	.22160	2109.10001	1248.10001	1.17310	1.13690	1.01190	.98530	.89230	.87980	.86160
.900	8.474	.22540	2109.79999	1247.39999	1.16460	1.13180	1.01490	.98670	.89280	.87520	.86960
.900	10.602	.22600	2108.39999	1246.00000	1.15620	1.12500	1.01580	.99280	.88350	.86970	.85870
.899	12.722	.22450	2107.70001	1247.39999	1.14610	1.11330	1.02320	.99460	.86850	.85120	.84200
.897	14.884	.23548	2109.79999	1251.00000	1.12980	1.09890	1.01680	.98790	.85920	.84070	.83300
.904	17.018	.23870	2109.79999	1242.50000	1.11840	1.08760	1.01650	1.00080	.85000	.83340	.81450
.902	21.282	.22570	2109.10001	1244.60001	1.07310	1.03970	.99150	.99350	.81380	.79560	.77460
.902	25.460	.20750	2109.10001	1243.89999	1.01980	.98400	.95660	.95360	.76340	.73210	.73460
GRADIENT		.00555	-.00001	.33345	.00198	.00110	.00550	.00700	.00124	.00152	.00095

RUN NO. 193/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.972	.055	.22230	2065.89999	1119.20000	1.23080	1.19880	1.02480	.98210	.79980	.77720	.80520
.980	4.275	.21180	2064.50000	1116.39999	1.24100	1.20470	1.05340	1.01930	.80980	.78810	.80460
.980	8.551	.23580	2066.60001	1117.80000	1.23460	1.19660	1.06510	1.03060	.78770	.76460	.78400
.977	10.707	.22630	2064.50000	1119.89999	1.22210	1.18450	1.06280	1.03290	.78600	.76230	.78060
.979	12.850	.21530	2065.89999	1119.20000	1.22130	1.17280	1.07260	1.03800	.78700	.75560	.78090
.979	15.001	.23430	2065.89999	1119.20000	1.19520	1.15670	1.06470	1.04270	.75890	.73590	.75950
.979	17.157	.22750	2065.20001	1118.50000	1.17600	1.13730	1.05650	1.03670	.74390	.72060	.74210
.979	21.454	.20510	2068.79999	1117.00000	1.12990	1.08700	1.03070	1.01670	.72930	.71840	.70040
.981	GRADIENT	-.00249	-.33170	-.66343	.00242	.00140	.00673	.00861	.00165	.00258	-.00014

TABULATED DATA - OA161 (ARC 11-97-37-09M)

(AE7R25) (02 AUG 78)

ARC 11-97-87-034 OA161 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SPEF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = .000 ELEVON = .000
 ATLIRON = 5.000 BDFLAP = -7.170

RUN NO. 188/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.100	.050	.20720	2016.39999	944.69000	1.37720	1.33580	1.13680	1.07920	.73110	.70910	.72060
1.102	4.282	.21750	2017.80000	943.31000	1.38510	1.33870	1.13880	1.11620	.72860	.70530	.71450
1.101	8.569	.23970	2020.00000	945.42000	1.36830	1.32050	1.17930	1.13230	.71890	.69180	.70120
1.101	10.728	.23890	2017.10001	944.00000	1.36300	1.31090	1.17850	1.13670	.71540	.68400	.69450
1.101	12.881	.23050	2018.50000	944.71000	1.34600	1.29350	1.18330	1.13920	.70690	.66730	.67920
1.101	15.058	.23400	2019.50000	945.41000	1.32430	1.26700	1.16700	1.13410	.69240	.65350	.66430
1.099	17.237	.22640	2017.80000	946.10000	1.30200	1.24190	1.15280	1.12120	.68830	.64900	.65870
1.101	21.529	.21940	2017.10001	944.00000	1.24730	1.18710	1.09760	1.03170	.67040	.61110	.59190
GRADIENT		.00243	.33077	-.32604	.00210	.00069	.00690	.00874	-.00059	-.00090	-.00144

RUN NO. 183/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.195	.044	.17740	2017.10001	836.01000	1.45560	1.40010	1.20040	1.11650	.68700	.66130	.67610
1.199	4.267	.21430	2017.10001	833.22000	1.46320	1.39290	1.22560	1.14450	.68940	.65450	.65940
1.197	6.408	.21910	2015.70000	834.61000	1.46610	1.38230	1.23040	1.14600	.68110	.64510	.65470
1.194	8.563	.23870	2019.50000	839.51000	1.44180	1.36350	1.21300	1.12180	.67020	.63390	.64370
1.196	10.737	.23440	2019.50000	836.72000	1.43700	1.35770	1.19300	1.09050	.66930	.62730	.63090
1.199	12.891	.22650	2017.10001	833.22000	1.42560	1.34430	1.16850	1.08700	.66590	.63910	.62090
1.195	15.052	.23700	2017.80000	837.41000	1.40090	1.31950	1.14580	1.07510	.64410	.64260	.59240
1.195	17.217	.22760	2016.39999	837.40000	1.37790	1.29590	1.12730	1.07100	.63720	.63850	.57460
1.199	21.523	.21510	2020.70000	834.64000	1.32390	1.24410	1.08270	1.05210	.63120	.59080	.55560
1.200	25.749	.22070	2016.39999	831.83000	1.25920	1.19020	1.03060	1.03290	.60750	.51600	.52710
GRADIENT		.00874	.00000	-.66073	.00180	-.00171	.00597	.00663	-.00038	-.00161	-.00182

RUN NO. 178/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.400	.011	.16370	2068.79999	650.34000	1.65950	1.56830	1.20250	1.13020	.61740	.59650	.61790
1.400	2.106	.21690	2069.10001	649.62000	1.66910	1.56180	1.21220	1.13110	.62210	.59250	.61220
1.399	4.215	.19430	2066.60001	650.39000	1.66700	1.55070	1.21950	1.13940	.62780	.59000	.60480
1.396	6.344	.23950	2067.39999	653.32000	1.66940	1.53290	1.21940	1.13680	.62260	.58500	.59580
1.398	8.500	.23290	2068.10001	651.83000	1.64310	1.51700	1.20570	1.13170	.61490	.58180	.57350
1.396	10.660	.24140	2067.39999	653.32000	1.62770	1.49240	1.19480	1.12830	.61180	.58870	.56060
1.399	12.804	.22650	2068.10001	651.83000	1.61420	1.48170	1.20400	1.14280	.60550	.54570	.55030
1.396	14.966	.22770	2067.39999	651.85000	1.59380	1.45730	1.18500	1.13330	.59980	.61510	.53030
1.399	17.135	.23270	2068.10001	651.10000	1.57220	1.43860	1.17140	1.12910	.58930	.59700	.51160
1.399	21.438	.20130	2069.10001	650.36000	1.51590	1.39590	1.13120	1.11210	.57730	.59640	.47510
1.404	25.700	.21950	2068.10001	645.93000	1.46050	1.35080	1.10990	1.08030	.56620	.48710	.44120
GRADIENT		.00726	-.52346	.01230	-.00060	-.00419	.00404	.00219	.00247	-.00157	-.00312

TABULATED DATA - OA161 (ARC 11-97-87-09*)
ARC 11-97-87-09* OA161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6900 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AILRON =

2.000 ELEVON = .000
5.000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	RUN NO.	204/ 0	RN/L = 4.23	GRADIENT INTERVAL = -5.00/ 5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.094	2.27240	2628.8999	2066.79999					1.0310	1.05370	1.07540	1.09240	1.10940	1.12640	1.14340
.594	4.195	2.31430	2629.50001	2071.00000					1.03660	1.05450	1.07890	1.09770	1.11650	1.13530	1.15410
.597	8.367	2.32650	2630.29999	2066.79999					1.03690	1.05490	1.08150	1.09800	1.11450	1.13100	1.14750
.596	10.475	2.33390	2631.00000	2068.89999					1.03110	1.04930	1.07970	1.09040	1.10110	1.11180	1.12250
.595	12.630	2.32900	2631.00000	2070.29999					1.02390	1.04300	1.07650	1.08800	1.10000	1.11200	1.12400
.595	14.784	2.31350	2631.00000	2071.00000					1.01740	1.03470	1.07400	1.08800	1.10100	1.11400	1.12700
.595	16.988	2.31320	2631.00000	2069.50001					1.00770	1.02740	1.07000	1.08500	1.09800	1.11100	1.12400
.597	21.123	2.29940	2632.50000	2068.20001					.98240	1.00320	.95370	.97410	.99450	.92800	.92800
	GRADIENT	.01022	.17058	1.02405					.00085	.00020	.00085	.00129	.00063	.00041	.00054

RUN NO. 197/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	RUN NO.	197/ 0	RN/L = 4.22	GRADIENT INTERVAL = -5.00/ 5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.901	.039	2.30330	2108.39999	1245.30000					1.12490	1.16910	1.06040	1.06800	1.07600	1.08400	1.09200
.901	4.255	2.32210	2105.50000	1243.89999					1.13410	1.17560	.98630	.99720	.99000	.99700	.99400
.899	6.372	2.32720	2107.70001	1247.39999					1.13960	1.17210	.99460	1.00550	.99040	.99750	.98770
.901	8.499	2.32180	2110.50000	1246.00000					1.13090	1.16720	.99800	1.00940	.99060	.99750	.98750
.900	10.626	2.33330	2107.70001	1246.00000					1.11980	1.16100	.99790	1.01180	.98200	.98950	.98950
.899	12.792	2.31580	2107.70001	1247.39999					1.09910	1.14570	1.00040	1.01410	.86330	.86690	.86560
.903	14.954	2.33790	2111.20001	1243.89999					1.09830	1.13610	.99870	1.02260	.85410	.83680	.86450
.900	17.131	2.34790	2107.70001	1246.00000					1.07750	1.11660	.98890	1.01600	.83880	.81980	.84550
.902	21.382	2.33270	2110.50000	1245.30000					1.03370	1.07300	.96780	1.00200	.79740	.78260	.82060
	GRADIENT	.00446	.11978	.33208					.00218	.00154	.00614	.00693	.00081	.00085	.00043

RUN NO. 194/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	RUN NO.	194/ 0	RN/L = 4.26	GRADIENT INTERVAL = -5.00/ 5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.980	.070	2.28270	2066.50001	1117.90000					1.19200	1.23980	1.00581	1.00990	.80210	.78210	.81710
.980	4.288	2.32380	2064.50000	1116.39999					1.20200	1.24530	1.00581	1.00990	.80190	.77920	.81470
.979	8.575	2.33290	2067.39999	1118.50000					1.19480	1.23710	1.00581	1.00990	.80190	.76560	.79560
.978	10.734	2.32230	2065.89999	1119.20000					1.18290	1.22640	1.00581	1.00990	.79020	.76300	.78930
.978	12.899	2.29560	2065.89999	1119.89999					1.17180	1.21390	1.00581	1.00990	.77480	.74850	.78040
.978	15.065	2.34490	2066.50001	1119.20000					1.15380	1.19540	1.00581	1.00990	.76260	.73620	.76280
.979	17.268	2.34940	2065.89999	1117.80000					1.13850	1.18030	1.00581	1.00990	.75860	.73740	.75860
.981	21.548	2.31950	2068.79999	1117.80000					1.08950	1.13380	1.00581	1.00990	.73410	.70800	.71060
	GRADIENT	.00974	.49786	.33191					.00237	.00130	.00642	.00627	.00005	.00069	.00057

ORIGINAL PAGE IS
OF POOR QUALITY

ARC 11-97-87-094 0A161 ORBITER

1AETR26 (02 AUG 75)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1075.6800 IN. YQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = 5.000 BDFLAP = -7.170

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.102	.052	2.29370	2017.10001	1.33220	1.38830	1.11650	1.10990	.72920	.70770	.71660
1.102	4.292	2.31970	2017.80000	1.33680	1.38930	1.14440	1.14440	.72450	.70770	.71250
1.100	8.589	2.32200	2019.30000	1.32600	1.37080	1.15980	1.15680	.71130	.67990	.69510
1.099	10.751	2.32370	2017.10001	1.31100	1.35850	1.16870	1.16160	.70890	.67340	.69130
1.101	12.933	2.30450	2020.00000	1.29650	1.34120	1.15770	1.15990	.70580	.67070	.67930
1.092	15.113	2.35000	2017.10001	1.27240	1.31660	1.14360	1.16560	.70020	.65130	.66310
1.099	17.347	2.35850	2019.30000	1.24760	1.29180	1.12340	1.14900	.69170	.63930	.63990
1.102	21.636	2.33520	2022.10001	1.18990	1.23490	1.03010	1.08360	.66210	.58790	.59830
	GRADIENT	.00613	.16509	.00109	.00024	.00654	.00840	-.00111	-.00127	-.00097

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.197	.053	2.28560	2017.10001	1.40290	1.45740	1.16990	1.15140	.67810	.68000	.68020
1.198	4.296	2.30300	2016.39999	1.40690	1.45940	1.20100	1.18120	.67910	.65130	.66300
1.198	8.590	2.32930	2017.80000	1.40120	1.44230	1.19880	1.17390	.67390	.63690	.64440
1.198	10.753	2.33390	2018.50000	1.38580	1.42620	1.15340	1.12920	.66140	.61520	.62910
1.191	12.934	2.30600	2017.80000	1.36980	1.39680	1.11430	1.11740	.65670	.61100	.61590
1.199	15.101	2.36320	2017.80000	1.34940	1.38820	1.10110	1.11860	.65190	.61710	.59550
1.199	17.328	2.36510	2017.10001	1.31820	1.35690	1.08190	1.11610	.64090	.60880	.58560
1.193	21.614	2.33560	2021.39999	1.26680	1.30600	1.03120	1.09960	.63440	.56100	.56940
1.200	GRADIENT	.00413	-.16602	.00095	-.00047	.00738	.00707	.00024	.00431	.00066

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.400	.016	2.33790	2057.39999	1.59850	1.64070	1.15370	1.17720	.61110	.58410	.59320
1.399	4.226	2.33030	2056.70001	1.60100	1.63110	1.17480	1.19460	.61680	.58320	.61020
1.397	8.517	2.31880	2058.20001	1.57610	1.59580	1.16090	1.18820	.60860	.57150	.57840
1.397	10.674	2.33760	2057.39999	1.56930	1.57840	1.15820	1.18500	.60250	.57860	.56890
1.397	12.850	2.29080	2058.20001	1.54370	1.55660	1.15210	1.18610	.59560	.56610	.54460
1.398	15.014	2.35980	2058.20001	1.52380	1.53830	1.13370	1.19580	.60310	.56760	.54310
1.399	17.235	2.36490	2057.39999	1.49700	1.51870	1.10940	1.19330	.59250	.61060	.51620
1.399	21.521	2.29320	2058.69999	1.44010	1.47160	1.06450	1.16620	.58890	.50850	.49420
	GRADIENT	-.00181	-.16628	.00059	-.00228	.00501	.00413	.00135	-.00021	.00404

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(AE7R27) (02 AUG 78)

REFERENCE DATA

SPEF = 2698.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = 0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 373.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = 3.000 BOFLAP = -7.170

RUN NO. 2054 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.106	5.36240	2629.60001	2066.79999	1.01080	1.07570	.96480	.99400	.95410	.94340	.95470
.596	4.212	5.39310	2627.60001	2067.50800	1.01600	1.07920	.97070	1.00280	.95450	.94450	.95430
.595	8.392	5.40360	2630.29999	2068.89999	1.01420	1.07740	.96980	1.00420	.95470	.94410	.95430
.595	10.514	5.39370	2630.29999	2069.60001	1.00870	1.07260	.96860	1.00360	.95510	.94580	.95550
.597	12.639	5.39410	2631.00000	2068.20001	1.00870	1.06700	.96740	1.00670	.95610	.94510	.95386
.594	14.781	5.38790	2634.00000	2072.39999	.99440	1.05830	.96030	1.00890	.95140	.93740	.95130
.596	16.871	5.38530	2631.00000	2069.60001	.98660	1.05370	.95710	1.00878	.95020	.93420	.94770
.596	21.085	5.39700	2631.00000	2068.60001	.96210	1.02730	.94070	.99210	.94360	.92470	.93750
	GRADIENT	.00748	.00000	.17045	.00127	.00085	.00144	.00214	.00010	.00027	.00018

RUN NO. 196/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.899	.067	5.37970	2104.79999	1245.30000	1.07520	1.22150	.93720	.99770	.87970	.85480	.87620
.900	4.268	5.41900	2108.39999	1246.70000	1.08290	1.22760	.96170	1.02630	.88390	.85960	.87620
.902	6.388	5.42400	2109.79999	1245.30000	1.09008	1.22580	.97200	1.03980	.88540	.86120	.87510
.899	8.512	5.41980	2107.00000	1247.39999	1.08058	1.22100	.97650	1.04130	.88740	.86330	.88330
.901	10.666	5.40530	2109.79999	1246.00800	1.07258	1.21250	.98230	1.04750	.87750	.85730	.87940
.900	12.794	5.41250	2109.79999	1246.70000	1.06260	1.20510	.98020	1.05040	.87040	.85030	.87810
.899	14.931	5.43420	2108.39999	1247.39999	1.04780	1.18980	.97180	1.05190	.86870	.83860	.87080
.900	17.065	5.45160	2108.39999	1246.70000	1.03060	1.17400	.96340	1.05710	.86070	.83030	.86030
.902	21.363	5.46300	2111.89999	1246.00000	.98820	1.13390	.93930	1.04140	.81210	.78120	.82956
	GRADIENT	.00985	.05683	.33321	.00183	.00145	.00583	.00681	.00100	.00114	.00000

RUN NO. 195/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.979	.080	5.39970	2067.39999	1118.50000	1.13380	1.29998	.98870	1.04280	.79590	.77560	.80030
.980	4.301	5.41550	2064.50000	1116.39999	1.14360	1.30730	1.00780	1.07460	.79320	.77770	.81480
.977	8.988	5.41810	2065.89999	1121.30000	1.13450	1.29240	1.02340	1.08570	.79680	.77660	.79810
.977	10.757	5.39530	2067.39999	1123.10001	1.12430	1.28650	1.02320	1.09260	.79590	.77340	.79660
.978	12.894	5.39730	2065.89999	1119.20000	1.11600	1.27618	1.01980	1.09740	.79240	.76480	.79450
.977	15.044	5.42750	2065.89999	1121.30000	1.09560	1.25890	1.01224	1.09770	.78810	.76290	.79180
.981	17.285	5.44360	2065.89999	1115.60801	1.08110	1.24640	1.00520	1.10540	.78620	.73620	.76220
.984	21.515	5.45000	2068.79999	1117.80000	1.02730	1.19750	.97350	1.08750	.73520	.69710	.71920
	GRADIENT	.00611	.08696	.49746	.00232	.00175	.00642	.00753	.00064	.00050	.00343

TABULATED DATA - 0A161 (ARC 11-97-87-094 1

(AE7R27) (02 AUG 78)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0380 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = .000
 ATLRON = 5.000
 ELEVON = 5.000
 BDFLAP = -7.170

RUN NO. 185/ 0		RW/L = 4.25		GRADIENT INTERVAL = -5.00/ 5.00	
BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P
5.37020	2015.70000	1.25480	1.45780	1.08060	1.14880
5.41690	2017.80000	1.26590	1.45920	1.11530	1.18560
5.41350	2020.00000	1.25380	1.44650	1.13360	1.19880
5.39350	2016.39999	1.23980	1.43270	1.13630	1.20410
5.39370	2016.39999	1.22120	1.41580	1.12100	1.20100
5.41380	2017.10001	1.19750	1.39350	1.10550	1.19640
5.44880	2015.00000	1.18270	1.37840	1.09670	1.20640
5.47280	2018.50000	1.12630	1.32310	.98510	1.19370
.01104	.49636	.00262	.00033	.00820	.00893
GRADIENT					

RUN NO. 185/ 0		RW/L = 4.26		GRADIENT INTERVAL = -5.00/ 5.00	
BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P
5.40340	2017.10001	1.32900	1.55790	1.13830	1.20620
5.42170	2016.39999	1.33020	1.54720	1.16900	1.23900
5.41880	2017.10001	1.31200	1.52450	1.15040	1.22070
5.40390	2017.80000	1.29760	1.51270	1.09050	1.18810
5.41420	2017.80000	1.28890	1.49840	1.06390	1.17980
5.42960	2017.10001	1.26430	1.47720	1.04160	1.17420
5.47470	2017.80000	1.23820	1.45370	1.01590	1.17580
5.48560	2020.70000	1.17770	1.40430	.96460	1.16790
.00433	-.16574	.00028	-.00253	.00727	.00777
GRADIENT					

RUN NO. 176/ 0		RW/L = 4.27		GRADIENT INTERVAL = -5.00/ 5.00	
BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P
5.40900	2058.20001	1.50720	1.76630	1.10030	1.26000
5.43230	2056.70001	1.51500	1.75870	1.11500	1.27350
5.43520	2059.60001	1.46420	1.72840	1.09500	1.26830
5.40490	2058.89999	1.46180	1.70730	1.09770	1.26550
5.41250	2058.89999	1.44780	1.69160	1.08030	1.26570
5.43900	2058.89999	1.42420	1.67630	1.05950	1.28140
5.48320	2058.89999	1.39230	1.65320	1.03680	1.28370
5.50190	2059.60001	1.33230	1.59860	.97890	1.26580
.00554	-.35681	.00186	-.00157	.00360	.00321
GRADIENT					

MACH		PS5/P		PS6/P		PS7/P	
1.098	.69310	.70870	.68230	.68230	.69310	.69310	.69310
1.103	.68570	.71090	.68590	.68590	.68570	.68570	.68570
1.099	.67940	.69970	.66770	.66770	.67940	.67940	.67940
1.099	.67130	.70010	.65710	.65710	.67130	.67130	.67130
1.098	.67120	.70090	.65270	.65270	.67120	.67120	.67120
1.092	.66880	.70400	.64850	.64850	.66880	.66880	.66880
1.093	.66510	.71010	.65040	.65040	.66510	.66510	.66510
1.093	.66070	.70052	.65860	.65860	.66070	.66070	.66070
1.102	.80061	.00052	.00055	.00055	.80061	.80061	.80061
GRADIENT							

MACH		PS5/P		PS6/P		PS7/P	
1.200	.64440	.68650	.63740	.63740	.64440	.64440	.64440
1.198	.65800	.68100	.64730	.64730	.65800	.65800	.65800
1.193	.66830	.66830	.63050	.63050	.66830	.66830	.66830
1.195	.65750	.65750	.61520	.61520	.65750	.65750	.65750
1.196	.68400	.68400	.61780	.61780	.68400	.68400	.68400
1.195	.63210	.66210	.59870	.59870	.63210	.63210	.63210
1.195	.61950	.65190	.57890	.57890	.61950	.61950	.61950
1.193	.59990	.62960	.56710	.56710	.59990	.59990	.59990
1.193	.59420	.60234	.56710	.56710	.59420	.59420	.59420
GRADIENT							

MACH		PS5/P		PS6/P		PS7/P	
1.402	.56790	.60380	.58670	.58670	.56790	.56790	.56790
1.403	.56950	.60950	.56950	.56950	.56950	.56950	.56950
1.397	.57650	.60210	.55250	.55250	.57650	.57650	.57650
1.397	.56640	.60080	.55250	.55250	.56640	.56640	.56640
1.397	.54220	.60190	.53170	.53170	.54220	.54220	.54220
1.401	.53730	.59650	.50750	.50750	.53730	.53730	.53730
1.399	.49340	.58950	.49340	.49340	.49340	.49340	.49340
1.399	.51460	.58350	.50380	.50380	.51460	.51460	.51460
1.399	.00530	.00136	.00409	.00409	.00530	.00530	.00530
GRADIENT							

(AETR28) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AILRON =

-5.000 ELEVON = .000
7.500 BOFLAP = -7.170

PARAMETRIC DATA

MACH		BETA		PT		P		PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
ALPHA	GRADIENT	210/0	211/0	212/0	213/0	214/0	215/0	216/0	217/0	218/0	219/0	220/0	221/0	222/0
.141	.596	-4.90680	2591.39999	2038.39999	1.08000	1.00190	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
4.205	.596	-4.92180	2592.10001	2039.39999	1.08820	1.00480	1.01010	1.01010	1.01010	1.01010	1.01010	1.01010	1.01010	1.01010
8.370	.596	-4.93310	2592.89999	2039.80000	1.08610	1.00108	1.00990	1.00990	1.00990	1.00990	1.00990	1.00990	1.00990	1.00990
10.480	.596	-4.88820	2592.89999	2039.80000	1.08230	1.00770	1.00770	1.00770	1.00770	1.00770	1.00770	1.00770	1.00770	1.00770
12.988	.596	-4.85830	2592.89999	2039.80000	1.07550	1.00860	1.00860	1.00860	1.00860	1.00860	1.00860	1.00860	1.00860	1.00860
14.684	.597	-4.85330	2592.89999	2039.80000	1.06210	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480
16.775	.596	-4.86050	2592.89999	2039.80000	1.06000	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480
21.015	.596	-4.88840	2592.89999	2039.80000	1.03880	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480	1.00480
GRADIENT		.00369	.17228	.00000	.00103	.00071	.00249	.00133	.00133	.00133	.00133	.00133	.00133	.00133

MACH		BETA		PT		P		PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
ALPHA	GRADIENT	210/0	211/0	212/0	213/0	214/0	215/0	216/0	217/0	218/0	219/0	220/0	221/0	222/0
.124	.901	-4.95580	2126.10001	1255.89999	1.24410	1.04850	1.02340	1.02340	1.02340	1.02340	1.02340	1.02340	1.02340	1.02340
4.282	.901	-4.93750	2127.50000	1256.60001	1.25330	1.05450	1.05240	1.05240	1.05240	1.05240	1.05240	1.05240	1.05240	1.05240
6.396	.901	-4.94070	2128.89999	1257.30000	1.25910	1.05240	1.05240	1.05240	1.05240	1.05240	1.05240	1.05240	1.05240	1.05240
8.516	.903	-4.93650	2129.60001	1254.50000	1.25240	1.04950	1.07320	1.07320	1.07320	1.07320	1.07320	1.07320	1.07320	1.07320
10.651	.897	-4.91060	2130.29999	1263.10001	1.23900	1.03850	1.06810	1.06810	1.06810	1.06810	1.06810	1.06810	1.06810	1.06810
12.764	.900	-4.92350	2135.70001	1263.70000	1.23040	1.02660	1.06820	1.06820	1.06820	1.06820	1.06820	1.06820	1.06820	1.06820
14.887	.900	-4.92260	2135.20001	1262.30000	1.21840	1.01590	1.07460	1.07460	1.07460	1.07460	1.07460	1.07460	1.07460	1.07460
17.032	.900	-4.93260	2134.50000	1262.30000	1.19840	1.01980	1.06580	1.06580	1.06580	1.06580	1.06580	1.06580	1.06580	1.06580
21.320	.898	-4.95930	2133.79999	1264.50000	1.15720	1.04370	1.04720	1.04720	1.04720	1.04720	1.04720	1.04720	1.04720	1.04720
GRADIENT		.00440	.33670	.16835	.00221	.00144	.00597	.00635	.00635	.00635	.00635	.00635	.00635	.00635

MACH		BETA		PT		P		PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
ALPHA	GRADIENT	221/0	222/0	223/0	224/0	225/0	226/0	227/0	228/0	229/0	230/0	231/0	232/0	233/0
.115	1.198	-4.98300	2046.10001	845.95000	1.60140	1.25800	1.28410	1.28410	1.28410	1.28410	1.28410	1.28410	1.28410	1.28410
4.280	1.203	-4.95050	2026.30000	832.61000	1.60940	1.25280	1.30610	1.30610	1.30610	1.30610	1.30610	1.30610	1.30610	1.30610
8.571	1.198	-4.94330	2020.70000	836.03000	1.58630	1.22550	1.30430	1.30430	1.30430	1.30430	1.30430	1.30430	1.30430	1.30430
10.725	1.200	-4.92860	2019.30000	832.55000	1.56020	1.21830	1.29130	1.29130	1.29130	1.29130	1.29130	1.29130	1.29130	1.29130
12.885	1.196	-4.92530	2019.30000	836.72000	1.56020	1.19210	1.26210	1.26210	1.26210	1.26210	1.26210	1.26210	1.26210	1.26210
15.041	1.199	-4.93890	2019.30000	833.24000	1.54710	1.17840	1.25280	1.25280	1.25280	1.25280	1.25280	1.25280	1.25280	1.25280
17.221	1.199	-4.94170	2019.30000	834.63000	1.52610	1.14890	1.25610	1.25610	1.25610	1.25610	1.25610	1.25610	1.25610	1.25610
21.544	1.198	-4.96130	2022.10001	836.04000	1.47380	1.09560	1.19441	1.19441	1.19441	1.19441	1.19441	1.19441	1.19441	1.19441
GRADIENT		.00780	.475321	.320242	.00192	.00125	.00576	.00576	.00576	.00576	.00576	.00576	.00576	.00576

ORIGINAL PAGE 13
OF FOUR QUALITY

ARC 11-97-87-094 CA161 ORBITER

REFERENCE DATA:

BETA	=	-5.000	ELEVON	=	.000
ALFON	=	7.500	BOFLAP	=	-7.170

SREF	=	2690.0000	50. FT.	XMRP	=	1076.6800	IN.	X0
LREF	=	474.8000	IN.	YMRP	=	.0000	IN.	Y0
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	Z0
SCALE	=	.0380						

CONFIDENCE	33.3%	0	BNV1	=	4.25	GRADIENT INTERVAL	=	-5.00%	5.00
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MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.402	0.073	-4.98750	2075.79999	650.94000	1.85900	1.40690	1.34080	1.02680	59760	57630	56940
1.402	4.236	-4.93850	2075.79999	650.94000	1.86810	1.39080	1.35250	1.04100	59550	57650	56590
1.398	8.503	-4.96870	2078.00000	654.59000	1.83690	1.34840	1.34570	1.03330	60160	57090	54380
1.401	13.650	-4.95430	2078.00000	652.38000	1.83220	1.33030	1.33520	1.03740	59730	58170	54050
1.400	12.801	-4.93120	2077.29999	653.13000	1.81230	1.30800	1.33080	1.02780	58890	54690	52130
1.392	14.968	-4.95440	2077.29999	654.61000	1.78760	1.28770	1.33570	1.01550	58330	52620	50230
1.398	17.132	-4.95650	2077.29999	654.61000	1.76240	1.26270	1.32140	1.00650	58160	49350	48870
1.398	21.478	-4.95600	2078.70001	655.32000	1.70790	1.21420	1.30380	0.97540	58620	58100	48870
					00397	00397	00281	00341	00046	00007	00000

AF 7889 1 02 AUG 76 1

PARAMETRIC DATA

BETA	=	-2.000	ELEVON	=	.000
ALIRON	=	7.500	BDFLAP	=	-7.170

=	2690.0000	SO.FT.	XMRP	=	1075.6800	IN.	X0
=	474.8000	IN.	YMRP	=	.0000	IN.	Y0
=	936.6800	IN.	ZMRP	=	375.0000	IN.	Z0
=			SCALE	=	.0300		

Iteration	BN/1	GRADIENT INTERVAL
1	4.23	-5.00
2	4.23	5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	.105	-1.88180	2593.60001	2039.10001	1.06180	1.02186	.98710	.95300	.95300	.94630	.95710
.597	.181	-1.82360	2593.60001	2038.39999	1.05700	1.02760	.97260	.94540	.95320	.94640	.95700
.597	.343	-1.81870	2593.60001	2038.39999	1.06800	1.02420	.98770	.97260	.94730	.94710	.95820
.597	.450	-1.81830	2593.60001	2038.39999	1.06180	1.01930	.99550	.97500	.95920	.94750	.95920
.595	.577	-1.83430	2594.29999	2041.30000	1.05400	1.01140	.99400	.95230	.95680	.94650	.95980
.595	12.577	-1.83430	2594.29999	2041.30000	1.05400	1.00500	.99390	.96960	.94980	.94560	.95440
.596	14.676	-1.84160	2593.60001	2039.80000	1.04640	.99540	.99020	.96500	.94580	.94360	.93170
.596	16.803	-1.84160	2593.60001	2039.80000	1.03880	.99540	.99020	.96500	.94580	.94360	.93170
.597	21.061	-1.84160	2593.60000	2033.17000	1.01310	.99730	.97580	.95270	.93580	.92930	.90844
					.00128	.00147	.00253	.00186	.00005	.00002	

(AET729) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 935.6800 IN. ZMRP = 375.0800 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA =
 ALRON =
 ELEVON = .000
 BDFLAP = -7.170

MACH	ALPHA	BETA	PT	RM/L	GRADIENT INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.200	.058	-1.83560	2133.79999	1261.68000	-5.00/	1.19180	1.09770	.99530	.92810	.88170	.85510	.87980
1.201	.058	-1.83520	2133.79999	1260.20000		1.20360	1.10390	1.02230	.95890	.88660	.87410	.89210
1.202	.058	-1.83480	2133.79999	1261.60000		1.20730	1.10180	1.03080	.96860	.89340	.87410	.88130
1.203	.058	-1.83440	2133.79999	1260.89999		1.19800	1.09590	1.03770	.96860	.89340	.87410	.88130
1.204	.058	-1.83400	2133.79999	1262.30000		1.19400	1.08920	1.03760	.97420	.89590	.87410	.88300
1.205	.058	-1.83360	2134.50000	1259.80000		1.18360	1.08150	1.04590	.98530	.89570	.87410	.88300
1.206	.058	-1.83320	2134.50000	1258.10000		1.17020	1.06830	1.04280	.98270	.89570	.87410	.88300
1.207	.058	-1.83280	2133.79999	1260.89999		1.15240	1.04620	1.03360	.97560	.89190	.87410	.88300
1.208	.058	-1.83240	2133.79999	1258.10000		1.10850	1.00200	1.01470	.95820	.89190	.87410	.88300
1.209	.058	-1.83200	2135.20000	1258.10000		.00281	.00148	.00643	.00734	.00117	.00214	.00293
1.210	.058	-1.83160	2135.20000	1258.10000		.00281	.00148	.00643	.00734	.00117	.00214	.00293

MACH	ALPHA	BETA	PT	RM/L	GRADIENT INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.200	.058	-1.84000	2020.00000	832.55000	-5.00/	1.52070	1.34450	1.23220	1.08700	.68280	.65310	.69010
1.201	.058	-1.83980	2018.50000	833.24000		1.52200	1.33570	1.25780	1.11650	.68280	.65310	.69010
1.202	.058	-1.83960	2019.50000	831.85000		1.51210	1.34670	1.26170	1.10250	.67840	.64950	.64950
1.203	.058	-1.83940	2018.50000	833.93000		1.49830	1.30390	1.22660	1.05530	.66430	.63350	.63800
1.204	.058	-1.83920	2018.50000	837.41000		1.47970	1.28450	1.20550	1.04950	.64080	.63780	.60870
1.205	.058	-1.83900	2018.50000	833.23000		1.46860	1.26680	1.19130	1.04160	.64080	.61490	.58350
1.206	.058	-1.83880	2017.80000	833.94000		1.44440	1.23620	1.17450	1.02970	.62760	.57280	.53900
1.207	.058	-1.83860	2019.30000	833.94000		1.44440	1.23620	1.17450	1.02970	.62760	.57280	.53900
1.208	.058	-1.83840	2020.70000	834.64000		1.38520	1.17830	1.13010	1.00900	.62410	.60980	.53900
1.209	.058	-1.83820	2020.70000	834.64000		.00031	.00289	.00609	.00702	-.00105	-.00038	-.00559
1.210	.058	-1.83800	2020.70000	834.64000		.00031	.00289	.00609	.00702	-.00105	-.00038	-.00559

MACH	ALPHA	BETA	PT	RM/L	GRADIENT INTERVAL	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.404	.051	-1.83200	2077.29999	649.44000	-5.00/	1.79490	1.50140	1.25630	1.08880	.60690	.58370	.59520
1.405	.051	-1.83180	2076.50000	650.93000		1.74410	1.48030	1.26950	1.08840	.60690	.58370	.59520
1.406	.051	-1.83160	2077.29999	653.13000		1.72470	1.44980	1.26620	1.08990	.60250	.58370	.59520
1.407	.051	-1.83140	2077.29999	654.61000		1.70360	1.42270	1.24740	1.09240	.60130	.60180	.54630
1.408	.051	-1.83120	2077.29999	653.87000		1.69030	1.40850	1.25390	1.09230	.59490	.60030	.53170
1.409	.051	-1.83100	2077.29999	652.40000		1.67400	1.38720	1.24700	1.08530	.59590	.60680	.51800
1.410	.051	-1.83080	2076.50000	650.93000		1.65620	1.36740	1.23560	1.08590	.59590	.61360	.51350
1.411	.051	-1.83060	2076.50000	650.93000		1.63620	1.34740	1.21320	1.05610	.57230	.53170	.47890
1.412	.051	-1.83040	2078.00000	653.85000		1.61620	1.32040	1.20320	1.05610	.57230	.53170	.47890
1.413	.051	-1.83020	2078.00000	653.85000		.00127	.00506	.00317	.00230	-.00091	.00891	-.80242
1.414	.051	-1.83000	2078.00000	653.85000		.00127	.00506	.00317	.00230	-.00091	.00891	-.80242

(AETR30) (02 AUG 78)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XC
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 7.500 BDFLAP = -7.170

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	.071	.20980	2603.50000	2047.68000	1.04720	1.03760	.98170	.97330	.95430	.94640	.95500
.595	4.173	.22290	2604.20001	2049.79999	1.05130	1.04080	.98070	.98080	.95500	.94650	.95600
.595	6.242	.22690	2604.89999	2049.00000	1.05450	1.03970	.98070	.98210	.95610	.94770	.95730
.594	8.338	.23680	2604.89999	2051.20001	1.04910	1.03630	.98630	.97970	.95290	.94600	.96560
.596	10.432	.23030	2605.60001	2049.79999	1.04490	1.03360	.98680	.97940	.95400	.94720	.95730
.595	12.527	.23370	2605.60001	2050.50000	1.03760	1.02690	.98630	.97900	.95420	.94760	.95490
.596	14.642	.24740	2605.60001	2049.10001	1.03230	1.02100	.98400	.97940	.95200	.94660	.95440
.596	16.766	.23910	2605.60001	2049.79999	1.02370	1.01080	.97830	.97520	.94940	.94590	.95010
.597	21.019	.22950	2607.00000	2048.29999	.99990	.98860	.96450	.96330	.93790	.93280	.93160
.597	25.185	.21690	2607.00000	2049.10001	.96990	.95760	.94690	.94300	.92130	.91350	.91660
GRADIENT		.00319	.17065	.53651	.00100	.00078	.00146	.00183	.00017	.00005	.00039

RUN NO. 213/ 0 RUN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.899	.044	.22400	2133.10001	1264.50000	1.15620	1.13120	.97560	.94580	.88280	.86330	.88010
.900	4.253	.22950	2134.50000	1261.60001	1.16830	1.14020	1.00370	.97730	.88860	.87170	.88750
.902	6.371	.22950	2133.79999	1258.80000	1.17500	1.13940	1.01480	.98950	.88860	.87390	.89350
.896	8.491	.24180	2133.10001	1266.60001	1.15990	1.12890	1.01560	.98450	.87710	.86350	.88292
.901	10.641	.23750	2132.79999	1259.39999	1.15980	1.12860	1.01850	.99670	.87680	.86500	.88720
.902	12.748	.22430	2133.79999	1259.50000	1.14930	1.11660	1.02510	1.00060	.87280	.85680	.87790
.902	14.893	.24140	2134.50000	1258.80000	1.13300	1.10270	1.02000	1.00300	.85750	.84400	.86660
.903	17.037	.23840	2133.79999	1257.39999	1.11790	1.08740	1.01610	1.00120	.85080	.82930	.85050
.893	21.304	.22150	2136.70001	1265.10001	1.06870	1.03720	.98770	.97930	.79660	.78420	.81140
.899	25.478	.19600	2132.79999	1261.60001	1.01650	.98050	.95700	.95010	.75430	.71630	.73220
GRADIENT		.00131	.33263	-.68898	.00287	.00214	.00568	.00746	.00143	.00189	.00178

RUN NO. 223/ 0 RUN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.200	.048	.21090	2018.50000	932.54000	1.46380	1.40640	1.20010	1.11940	.67730	.65070	.66060
1.198	4.274	.22820	2017.10001	833.92000	1.46120	1.39070	1.28600	1.14250	.67900	.65060	.65870
1.195	6.401	.22270	2017.80000	837.41000	1.46380	1.38140	1.22770	1.14050	.67570	.64570	.65230
1.198	8.570	.23560	2018.50000	834.63000	1.45000	1.37430	1.23110	1.12950	.67560	.64400	.64650
1.198	10.738	.23350	2018.50000	834.63000	1.43760	1.36170	1.18250	1.08930	.67160	.63600	.64092
1.195	12.898	.23380	2018.50000	836.71000	1.41980	1.34370	1.16400	1.08400	.66510	.61920	.62620
1.196	15.059	.24170	2018.50000	836.71000	1.41760	1.32220	1.14250	1.07500	.64290	.64030	.59620
1.200	17.223	.22450	2018.50000	832.54000	1.34110	1.30540	1.13330	1.07320	.62790	.62790	.57550
1.195	21.530	.21150	2022.10001	838.83000	1.31720	1.23780	1.07360	1.04800	.62100	.58560	.55110
1.195	25.753	.21270	2022.10001	835.35000	1.25680	1.19310	1.03130	1.03490	.60990	.54720	.51610
GRADIENT		.00409	-.33128	.32656	-.00062	-.00348	.00513	.00547	.00040	-.00002	-.00045

TABULATED DATA - OAMS (ARC 11-97-87-08%)

ARC 11-97-87-09% OAMS ORBITER

(AE7R301 (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = .000 ELEVON = .000
AFLRON = 7.500 BOFLAP = -7.178

PARAMETRIC DATA

RUN NO. 218% 0 RML = 4.2% GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.402	.015	.18850	2050.89999	645.37000	1.67340	1.56810	1.28520	1.12560	.63680	.58520	.58790
1.401	4.220	.21030	2050.29999	645.82000	1.65740	1.55150	1.21930	1.13970	.61210	.57940	.62440
1.400	6.341	.24140	2050.60001	647.57000	1.67450	1.53780	1.22350	1.14270	.61940	.58180	.58920
1.398	8.497	.23280	2051.00000	649.02000	1.64398	1.51690	1.21660	1.13540	.64440	.58450	.57710
1.398	10.650	.23520	2057.39999	649.35000	1.62970	1.49770	1.19750	1.13100	.61000	.56640	.56280
1.397	12.799	.23710	2057.39999	649.09000	1.61160	1.48090	1.20230	1.14140	.60320	.61250	.55160
1.393	14.962	.25050	2057.39999	647.61000	1.59890	1.46870	1.18810	1.13660	.59770	.60210	.53650
1.398	17.127	.23640	2057.39999	648.35000	1.55690	1.44020	1.16910	1.12920	.58980	.60210	.52330
1.398	21.438	.25140	2058.88999	648.52000	1.51410	1.39750	1.13310	1.11340	.57640	.57370	.48590
1.398	25.780	.20070	2060.29999	661.25000	1.44270	1.34160	1.09510	1.07250	.55700	.47370	.46340
1.396	GRADIENT	.00516	.33295	.34485	-.00143	-.00792	.00335	.00246	-.00126	-.00139	.00155

ARC 11-97-87-09% OAMS ORBITER

(AE7R311 (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 2.000 ELEVON = .000
AFLRON = 7.500 BOFLAP = -7.178

PARAMETRIC DATA

RUN NO. 207% 0 RML = 4.22 GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.070	2.29780	2604.20001	2046.20000	1.03490	1.05330	.97380	.98170	.95390	.94640	.95850
.594	4.184	2.31760	2604.20001	2051.83999	1.03470	1.05530	.97840	.98760	.96240	.94320	.95490
.595	8.357	2.33240	2605.60001	2050.50000	1.03440	1.05340	.97940	.99010	.95470	.94570	.95760
.594	10.462	2.34420	2606.60001	2052.60001	1.02990	1.04760	.97770	.98900	.95320	.94450	.95590
.596	12.622	2.33980	2606.29999	2049.79999	1.02410	1.04410	.97790	.98690	.95320	.94540	.95540
.595	14.759	2.32250	2606.29999	2049.10001	1.01890	1.03670	.97540	.98990	.95280	.94570	.95530
.596	16.906	2.31730	2606.29999	2049.10001	1.01860	1.02710	.96870	.98430	.95030	.94370	.94730
.594	21.119	2.30420	2606.29999	2052.60001	.98200	1.09250	.95220	.97210	.94120	.92740	.93660
	GRADIENT	.00481	.00000	1.38540	.00068	.00049	.00112	.00143	-.00036	-.00078	-.00041

ORIGINAL PAGE IS
OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(AETR31) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0006 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA =
 ALRON =
 2.000 ELEVON = .000
 7.560 BDELAP = -7.170

RUN NO. 214/ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.06/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.902	.054	2.29100	2137.39999	1260.89999	1.12780	1.17850	.95890	.96870	.88490	.85580	.89150
.902	4.261	2.34000	2133.79999	1259.50000	1.13550	1.17700	.95890	.96870	.88490	.85580	.89150
.901	6.388	2.34180	2138.79999	1253.00000	1.13840	1.17210	.95890	.96870	.88490	.85570	.89080
.900	8.517	2.33510	2134.50000	1261.60001	1.13120	1.16950	1.00190	1.01040	.88500	.85930	.88900
.901	12.651	2.33920	2139.79999	1263.70000	1.12250	1.16170	.99850	1.01250	.87630	.85070	.87900
.901	12.807	2.30590	2136.70001	1261.60001	1.11210	1.15220	1.00370	1.01910	.87280	.84500	.86120
.901	14.974	2.35530	2138.10001	1262.30000	1.09910	1.13880	1.00370	1.02820	.86070	.83590	.85450
.905	17.167	2.35910	2140.20001	1258.10001	1.08200	1.12430	.99490	1.02530	.84680	.82600	.85420
.904	21.412	2.33390	2138.79999	1259.50000	1.03560	1.07900	.97160	1.00700	.79510	.78290	.81740
GRADIENT		.01165	-.85581	-.33281	.00193	.00193	.00656	.00706	.00140	.00114	.00124

RUN NO. 224/ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.06/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.197	.064	2.27680	2021.39999	836.74000	1.40140	1.45600	1.17050	1.15140	.67340	.64950	.64740
1.198	4.279	2.33990	2018.50000	834.63000	1.40600	1.45250	1.20040	1.18240	.67120	.64100	.64780
1.198	8.593	2.33570	2020.00000	835.33000	1.39190	1.43830	1.20150	1.16490	.67040	.64100	.64100
1.195	10.758	2.33380	2017.80000	836.71000	1.38170	1.42560	1.15400	1.12450	.66490	.62280	.63510
1.195	12.938	2.30990	2018.50000	837.41000	1.36320	1.40600	1.12180	1.11910	.65790	.62460	.62220
1.197	15.108	2.36590	2017.90000	835.31000	1.34510	1.38710	1.10210	1.12560	.65190	.60800	.60080
1.193	17.334	2.37190	2018.50000	833.24000	1.32280	1.36470	1.08500	1.11710	.64080	.60470	.59480
1.198	21.623	2.34330	2021.39999	836.04000	1.26160	1.30470	1.03170	1.09850	.62920	.55370	.55750
GRADIENT		.01495	-.68795	-.50054	.00109	-.00130	.00700	.00735	-.00052	-.00107	.00005

RUN NO. 217/ 0 RM/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.403	.017	2.31550	2036.89999	637.69000	1.60410	1.64390	1.15430	1.17910	.60200	.59170	.57530
1.402	4.224	2.31700	2036.89999	638.43000	1.60150	1.63240	1.17750	1.19310	.60440	.56780	.57550
1.395	8.514	2.33620	2036.20000	644.33000	1.57170	1.59150	1.16710	1.18330	.60430	.55840	.57300
1.397	10.670	2.33230	2037.60001	642.83000	1.55770	1.57950	1.15780	1.18496	.60220	.56820	.56040
1.396	12.843	2.30620	2037.60001	644.31000	1.53790	1.56100	1.15060	1.18320	.59270	.58160	.54930
1.397	15.011	2.34450	2037.60001	642.63000	1.52240	1.54220	1.13310	1.19320	.60100	.54250	.54640
1.397	17.234	2.36630	2037.60001	642.10000	1.49310	1.51690	1.10800	1.19040	.58530	.52760	.52760
1.398	21.527	2.34400	2039.39999	647.24000	1.43020	1.46740	1.05960	1.16110	.57540	.53550	.43420
GRADIENT		.00036	.00000	.17591	-.00062	-.00273	.00551	.00333	.00057	-.00573	.00129

TABULATED DATA - 0A161 (AFC 11-97-87-09M)
ARC 11-97-87-09M 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = 7.500 SDFLAP = -7.170

RUN NO. 206/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.537	.111	5.37160	2607.70001	2049.10001	1.01030	1.07530	.96450	.99360	.95250	.94270	.95340
.537	4.213	5.39950	2607.00000	2049.10001	1.01490	1.07930	.96850	1.00260	.95240	.94400	.95370
.536	6.297	5.40680	2605.60001	2049.10001	1.01790	1.07800	.97120	1.00610	.95270	.94210	.95340
.536	8.388	5.41240	2606.29999	2049.79999	1.01340	1.07570	.96800	1.00290	.95120	.94300	.95360
.536	10.511	5.40820	2606.29999	2049.10001	1.00800	1.07300	.96990	1.00530	.95470	.94160	.95350
.536	12.635	5.40920	2606.29999	2049.79999	1.00320	1.06570	.96570	1.00380	.95330	.94090	.95330
.536	14.759	5.40100	2605.29999	2049.10001	.99530	1.05920	.96060	1.00100	.95280	.93870	.95210
.536	16.857	5.39790	2606.29999	2049.79999	.98480	1.05020	.95530	1.00140	.95310	.93580	.94890
.536	21.032	5.40520	2607.00000	2049.79999	.96190	1.02820	.94030	.99280	.94440	.92190	.93550
	GRADIENT	.0.580	-1.7064	.00000	.00112	.00098	.00122	.00219	.00002	.00032	.00007

RUN NO. 215/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.902	.065	5.40050	2138.10001	1261.60001	1.07710	1.22340	.94070	.99880	.87950	.85150	.87280
.901	4.273	5.42290	2136.70001	1261.60001	1.08450	1.22590	.96450	1.02880	.88360	.85680	.87540
.899	6.402	5.42850	2137.39999	1264.39999	1.08810	1.22400	.97060	1.03890	.89350	.86200	.87870
.904	8.530	5.43050	2136.70001	1259.10001	1.08450	1.22440	.97390	1.04160	.87570	.85760	.87980
.900	10.678	5.41350	2137.39999	1263.70000	1.07160	1.21290	.97850	1.04470	.86830	.85090	.87570
.902	12.809	5.42950	2138.10001	1260.89999	1.06380	1.20550	.97740	1.05020	.86240	.84880	.87300
.903	14.946	5.43350	2135.20001	1258.10001	1.04880	1.19510	.97520	1.05510	.85940	.83550	.86140
.897	17.094	5.45790	2138.10001	1268.00000	1.02570	1.17180	.95820	1.05360	.84040	.82420	.85440
.902	21.337	5.47840	2138.10001	1260.89999	.98220	1.13500	.93960	1.04440	.81300	.78730	.82660
	GRADIENT	.0.0532	-1.33270	.00000	.00175	.00083	.00566	.00713	.00097	.00171	.00109

RUN NO. 225/ 0 RN/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.137	.077	5.39410	2017.80000	835.31000	1.32490	1.55140	1.13460	1.20550	.65960	.63420	.63980
.138	4.298	5.42780	2017.10001	833.92000	1.32640	1.54710	1.16760	1.23270	.67290	.63830	.64750
.139	6.403	5.42930	2018.50000	842.29000	1.30510	1.51520	1.15900	1.21190	.65750	.61930	.62450
.136	8.532	5.40960	2017.80000	836.02000	1.30040	1.51600	1.09600	1.19950	.65030	.62070	.62760
.135	10.679	5.42030	2019.30000	836.72000	1.28290	1.49750	1.06310	1.17990	.65840	.61020	.62300
.135	12.833	5.42030	2019.30000	836.72000	1.28290	1.49750	1.06310	1.17990	.65840	.61020	.62300
.135	15.097	5.43610	2017.80000	837.41000	1.26060	1.48030	1.03810	1.17760	.66200	.60380	.62010
.135	17.255	5.47000	2018.50000	832.54000	1.24660	1.46870	1.02660	1.15610	.65690	.59630	.61330
.135	21.581	5.48910	2022.10001	838.13000	1.17660	1.40840	.97010	1.16980	.61990	.55190	.59750
	GRADIENT	.0.0798	-1.16596	.00000	.00036	.00102	.00712	.00644	.00078	.00097	.00182

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(AE7R32) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BRP = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = 5.000 ELEVON = .000
 AILRON = 7.500 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 216/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.397	.051	5.42770	2033.39999	641.44000	1.49910	1.75710	1.09300	1.25800	.59780	.58400	.55790
1.400	4.247	5.43220	2034.10001	639.22000	1.52310	1.76080	1.10950	1.26760	.60180	.56230	.55950
1.397	8.531	5.45630	2034.10001	641.43000	1.48070	1.73300	1.10240	1.26820	.59610	.54340	.55810
1.397	10.703	5.42240	2036.20000	642.86000	1.46130	1.70990	1.09940	1.27150	.59790	.53860	.53140
1.396	12.845	5.41860	2035.50000	643.61000	1.44340	1.68080	1.07830	1.26690	.59690	.52690	.54100
1.398	14.997	5.44860	2036.69999	642.11000	1.41820	1.65940	1.05570	1.26710	.59400	.51740	.52990
1.396	17.150	5.46560	2036.20000	643.60000	1.38730	1.65100	1.03260	1.28000	.58570	.48660	.51350
1.398	21.481	5.49870	2039.10001	642.07000	1.33020	1.60490	.97770	1.26550	.57870	.47940	.51660
	GRADIENT	.00107	.16695	-.52914	.00238	.00091	.00353	.00229	.00095	-.00547	.08085

ARC 11-97-87-094 0A161 ORBITER

(AE7R33) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BRP = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = -5.000 ELEVON = .000
 AILRON = 10.000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 252/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.596	.147	-4.93550	2616.89999	2058.29999	1.08380	1.00190	1.00280	.95720	.95300	.94380	.95170
.597	4.211	-4.91050	2618.29999	2059.29999	1.08960	1.00490	1.01060	.96260	.95370	.94610	.95760
.597	8.375	-4.89700	2619.70001	2058.29999	1.08660	1.00250	1.01290	.96030	.95370	.94370	.96710
.597	10.484	-4.88280	2619.70001	2058.29999	1.08280	.99730	1.01050	.96300	.95290	.94560	.96690
.597	12.595	-4.85280	2619.70001	2059.00000	1.07610	.98140	1.00950	.96050	.95170	.94660	.96280
.596	14.690	-4.84570	2619.70001	2059.70001	1.06840	.98340	1.00800	.95730	.94830	.94600	.95780
.597	16.780	-4.85340	2619.70001	2059.00000	1.06020	.97460	1.00330	.95250	.94490	.94620	.95690
.597	21.025	-4.88240	2619.70001	2058.29999	1.03650	.95150	.98190	.93840	.93750	.93140	.93960
	GRADIENT	-.00123	.34450	.00000	.00143	.00074	.00192	.00118	.00017	.00057	-.00101

(AE7R33) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SO-FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = 10.000 BOFLAP = -2.170

RUN# NO. 251/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.111	-4.92430	2116.89999	1.24510	1.04590	1.02620	.90600	.87780	.85880	.84060
.899	4.275	-4.93190	2115.89999	1.25030	1.05360	1.04980	.92998	.88010	.86150	.84370
.898	6.392	-4.93690	2116.89999	1.25650	1.06160	1.06110	.94100	.89040	.87030	.85200
.900	8.513	-4.94670	2117.89999	1.26670	1.07340	1.07330	.94440	.89370	.87350	.85500
.900	10.645	-4.95270	2116.89999	1.27660	1.08310	1.08300	.95500	.90420	.88400	.86550
.900	12.761	-4.96030	2116.89999	1.29100	1.09400	1.09400	.96500	.91420	.89400	.87550
.900	14.899	-4.96450	2116.89999	1.30100	1.10260	1.10260	.97500	.92420	.90400	.88550
.900	17.037	-4.96650	2116.89999	1.31200	1.10920	1.10920	.98500	.93420	.91400	.89550
.901	21.323	-4.96400	2118.29999	1.35590	.94210	1.04300	.92280	.79310	.78080	.80850
GRADIENT		.00183	.00001	.00139	.00185	.00567	.00574	.00055	.00065	.00219

RUN# NO. 241/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.988	.126	-4.94260	2065.20001	1.32960	1.10060	1.07820	.93140	.79620	.75650	.81040
.981	4.298	-4.94090	2063.79999	1.33630	1.10650	1.10650	.93540	.79670	.75640	.81150
.983	6.572	-4.94760	2065.89999	1.33510	1.09890	1.12480	.90250	.77300	.74540	.80800
.979	10.715	-4.95330	2064.50000	1.32050	1.08360	1.11950	.90000	.76910	.73900	.80920
.980	12.860	-4.95630	2065.20001	1.30920	1.07360	1.12050	.90310	.77290	.74000	.81100
.978	15.014	-4.94830	2064.50000	1.29210	1.05580	1.12460	.90800	.76840	.72840	.78210
.963	17.167	-4.92290	2067.39999	1.27520	1.03590	1.11840	.90230	.74290	.71720	.75210
.981	21.472	-4.94560	2065.20001	1.25100	.98200	1.09810	.96010	.72020	.68580	.69820
GRADIENT		.00041	-.33561	.00209	.00141	.00578	.00815	-.00226	.00046	.00026

RUN# NO. 240/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.098	.113	-4.93890	2003.70000	1.49500	1.21110	1.19930	1.01310	.71220	.67850	.71450
1.098	4.303	-4.94030	2003.70000	1.50210	1.21380	1.22950	1.04260	.70770	.67570	.71240
1.102	8.579	-4.94590	2005.80000	1.48830	1.19670	1.24670	1.06770	.69760	.66350	.69440
1.097	10.731	-4.95070	2004.33333	1.47180	1.18030	1.23970	1.07770	.68890	.65320	.67250
1.098	12.883	-4.95580	2005.10001	1.45820	1.16150	1.23540	1.07210	.68750	.65670	.66590
1.099	15.052	-4.94610	2005.80000	1.43750	1.13790	1.23440	1.06470	.67850	.64210	.64260
1.100	17.218	-4.92680	2005.10001	1.41670	1.11290	1.22140	1.06480	.67200	.62740	.63290
1.100	21.538	-4.94350	2005.10001	1.36830	1.04730	1.17760	.93740	.65710	.60650	.60440
GRADIENT		-.00048	.00000	.00169	.00064	.00721	.00704	-.00107	-.00067	-.00059

ARC 11-97-87-094 0A161 ORBITER

(AE7R33) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .008
AILRON = 10.000 BDFLAP = -7.170

RUN NO. 231/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.399	.110	-4.96370	2008.60001	828.99000	1.60510	1.25730	1.27990	1.05870	.67810	.64660	.69470
1.397	4.282	-4.96040	2005.80000	830.35000	1.60310	1.24880	1.29980	1.09000	.67390	.65030	.68560
1.396	8.562	-4.93370	2007.20000	829.68000	1.58920	1.22830	1.30510	1.05090	.66300	.64140	.65600
1.399	10.721	-4.93290	2010.10001	831.09000	1.58000	1.21530	1.28580	1.01890	.64890	.63330	.61700
1.397	12.881	-4.91530	2009.39999	831.78000	1.56220	1.19650	1.26360	1.00270	.64520	.60620	.59120
1.396	15.057	-4.89290	2010.10001	833.18000	1.53960	1.16940	1.24840	.98460	.62910	.57340	.57700
1.396	17.216	-4.93760	2007.69999	832.47000	1.52420	1.14770	1.22970	.97480	.62060	.55660	.55700
1.396	21.538	-4.95700	2009.39999	832.47000	1.47240	1.09630	1.19160	.94890	.62630	.57010	.56940
	GRADIENT	.00079	-.67105	.32834	-.00048	-.00204	.00477	.00750	-.00101	.00089	-.00218

RUN NO. 230/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.399	.073	-4.98360	2057.39999	648.35000	1.85560	1.40100	1.33780	1.02340	.59070	.56490	.55690
1.399	4.231	-4.97090	2056.70001	648.89000	1.85830	1.38540	1.34400	1.03440	.59580	.57850	.57600
1.396	8.495	-4.94530	2058.20001	650.55000	1.83510	1.34680	1.34680	1.03100	.59130	.56180	.55060
1.396	10.645	-4.93720	2057.39999	650.55000	1.82240	1.32660	1.33200	1.03380	.58970	.56350	.54700
1.397	12.794	-4.92180	2059.20001	649.81000	1.80620	1.30520	1.32890	1.02650	.58520	.53150	.52440
1.397	14.958	-4.91220	2058.20001	649.81000	1.78660	1.28470	1.32780	1.01780	.57450	.51180	.50990
1.396	17.119	-4.94220	2058.20001	650.55000	1.75900	1.26410	1.31830	1.00840	.57240	.50290	.49960
1.396	21.463	-4.94870	2059.60001	650.52000	1.70280	1.21250	1.29880	.97300	.57680	.53980	.48990
	GRADIENT	.00305	-.16834	-.35113	.00065	-.00375	.00149	.00265	.00123	.00327	.00458

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(AE7R34) (02 AUG 75)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = 10.000 BDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 253/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.089	-1.81290	2619.00000	1.06310	1.02408	.99010	.96690	.95450	.94570	.95680
.597	4.193	-1.81610	2613.29999	1.06780	1.02640	.99570	.97330	.95430	.94510	.95870
.595	8.343	-1.91500	2619.00000	1.06340	1.02210	.99810	.97510	.95200	.94490	.96220
.597	10.460	-1.80980	2619.00000	1.06180	1.02090	.99750	.97270	.95370	.94670	.96080
.597	12.586	-1.79610	2619.00000	1.05580	1.01390	.99670	.97410	.95350	.94720	.95840
.592	14.664	-1.77060	2619.00000	1.04740	1.00760	.99390	.97190	.95120	.94540	.95730
.595	16.799	-1.83660	2619.00000	1.03970	.99720	.99110	.96710	.94610	.94440	.95150
.595	21.071	-1.83110	2619.70001	1.01200	.97310	.95310	.93520	.92880	.93070	.93070
GRADIENT		.00078	.17064	.00115	.00059	.00137	.00156	.00005	.00015	.00071

RUN NO. 250/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.901	.084	-1.85760	2116.89999	1.19500	1.09848	.99680	.93000	.88180	.86240	.87740
.901	4.247	-1.83190	2116.20001	1.20050	1.10330	1.02200	.95700	.88740	.86240	.88400
.899	6.359	-1.82800	2116.89999	1.20610	1.10160	1.02870	.96700	.88510	.86450	.88410
.899	8.488	-1.83480	2116.89999	1.19830	1.09700	1.03690	.97140	.88250	.86120	.88820
.900	10.622	-1.82270	2117.60001	1.19050	1.08940	1.03750	.97490	.87710	.85450	.88790
.900	12.750	-1.81250	2117.60001	1.18250	1.07970	1.04130	.98330	.88490	.84750	.88210
.900	14.871	-1.82510	2117.60001	1.16450	1.06320	1.03850	.98090	.88100	.83590	.86610
.900	17.056	-1.88300	2117.60001	1.15010	1.04750	1.03370	.97780	.88390	.83400	.85340
GRADIENT		.00617	.16813	.00132	.00054	.00220	.00610	.00650	.00640	.00510
		.00617	.16813	.00118	.00050	.00605	.00649	.00135	.00252	.00159

RUN NO. 242/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.982	.062	-1.82550	2065.89999	1.27250	1.16000	1.04410	.96350	.79170	.76590	.81350
.982	4.275	-1.83230	2063.79999	1.27810	1.16320	1.07130	.99200	.78790	.76910	.81270
.979	8.553	-1.81140	2063.10001	1.27310	1.15700	1.08950	1.01100	.78730	.75990	.80350
.979	10.710	-1.79450	2063.10001	1.26430	1.14630	1.08740	1.01340	.77580	.74660	.78750
.979	12.849	-1.79250	2063.79999	1.24910	1.13180	1.08890	1.02280	.76780	.73780	.78250
.979	14.989	-1.82140	2068.79999	1.23450	1.11420	1.08330	1.02110	.74910	.71990	.74420
.979	17.163	-1.87680	2063.79999	1.21570	1.09370	1.07920	1.01350	.73590	.70690	.73170
.979	21.435	-1.87580	2065.99999	1.17460	1.04310	1.05820	.99560	.71800	.68960	.69020
GRADIENT		.00159	.49933	.00157	.00076	.00646	.00676	.00090	.00075	.00019

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

(AET75341 (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITIER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 107E.6800 IN. XO
 LREF = 474.8000 IN. YMRP = 0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 AILRON =

-2.000 ELEVON = .000
 10.000 BDFLAP = -7.170

RUN NO. 2394 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.099	.085	-1.85780	2005.70000	939.68000	1.42650	1.28580	1.15810	1.04720	.71920	.68980	.71690
1.099	4.276	-1.84350	2004.39999	940.39000	1.43050	1.28660	1.19040	1.08050	.71450	.68890	.70630
1.099	8.564	-1.82420	2003.10001	941.10000	1.41640	1.27600	1.20350	1.10310	.70550	.67880	.69340
1.097	10.729	-1.80080	2003.70000	941.78000	1.40540	1.25760	1.20020	1.10720	.70020	.66850	.68300
1.098	12.880	-1.73940	2003.10001	941.10000	1.38760	1.23760	1.20350	1.11460	.69470	.66370	.67130
1.098	15.032	-1.84230	2003.70000	942.49000	1.36520	1.21350	1.19080	1.10410	.67950	.64290	.62980
1.097	17.257	-1.89150	2005.80000	942.50000	1.34520	1.18600	1.17460	1.08820	.66950	.62290	.62980
1.097	21.575	-1.85500	2003.00000	939.68000	1.29010	1.12740	1.12540	.99440	.65750	.62380	.59540
1.099	GRADIENT	.00341	.16704	.16943	.00095	.00067	.00771	.00795	-.00112	-.00021	-.00253

RUN NO. 232/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.052	-1.82850	2007.89999	828.99000	1.51880	1.33950	1.23080	1.08630	.67250	.64180	.68040
1.200	4.260	-1.83550	2007.89999	828.29000	1.52220	1.33510	1.25340	1.11070	.67130	.64380	.66720
1.195	8.550	-1.81830	2009.39999	832.47000	1.50740	1.31530	1.25440	1.09430	.66350	.63310	.63870
1.198	10.720	-1.81500	2008.60001	830.38000	1.49770	1.30330	1.23230	1.05880	.66210	.63230	.63540
1.195	12.874	-1.80340	2007.89999	833.86000	1.47600	1.28920	1.20000	1.04870	.64440	.62630	.60540
1.200	15.023	-1.84110	2008.60001	828.30000	1.46700	1.26750	1.19350	1.04350	.63460	.59480	.56130
1.193	17.240	-1.89720	2007.89999	835.25000	1.43550	1.22850	1.16460	1.02950	.61690	.55750	.56620
1.199	21.576	-1.86320	2011.50000	830.40000	1.38230	1.17740	1.12650	1.00950	.62130	.55750	.54900
1.199	GRADIENT	-.00169	-.00001	-.16631	.00100	-.00405	.00537	.00580	-.00029	.00048	-.00314

RUN NO. 2294 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.400	.046	-1.85730	2050.39999	644.07000	1.74250	1.49550	1.25200	1.09030	.60130	.58420	.58740
1.399	4.213	-1.91110	2048.29999	644.84000	1.73680	1.47380	1.26360	1.08750	.59770	.58190	.59190
1.399	8.482	-1.82430	2050.39999	646.28000	1.71780	1.44300	1.26308	1.09030	.59990	.56990	.56880
1.398	10.639	-1.83030	2048.29999	645.58000	1.70530	1.42250	1.24510	1.09250	.59770	.57340	.56880
1.399	12.783	-1.81370	2047.50000	644.12000	1.69090	1.40359	1.25020	1.09030	.58620	.54640	.54400
1.399	14.927	-1.85730	2048.29999	644.84000	1.66990	1.37970	1.24250	1.08420	.57390	.52670	.52400
1.400	17.142	-1.91710	2047.50000	643.38000	1.64730	1.36540	1.22960	1.08410	.57110	.51160	.50840
1.399	21.499	-1.87730	2048.00000	644.83000	1.58420	1.32030	1.19890	1.05850	.57550	.54870	.54680
1.399	GRADIENT	-.01051	-.50400	.18481	-.00137	-.00521	.00263	-.00067	-.00086	-.00132	-.00108

(AETR35) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .090
AILRON = 10.000 BDFLAP = -7.170

TABULATED DATA - 0A16L (ARC 11-97-87-094)

ARC 11-97-87-094 0A16L ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 254/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.082	.23530	2618.29999	2057.60081	1.04780	1.03760	.98110	.97320	.95340	.94460	.93490
.597	.188	.23290	2618.29999	2058.29999	1.05120	1.04010	.98670	.98000	.95380	.94610	.93630
.597	.258	.24210	2619.00000	2059.00000	1.05328	1.03990	.98970	.98260	.95240	.94590	.93540
.597	.348	.24590	2619.00000	2057.60081	1.04910	1.03830	.99010	.98240	.95360	.94630	.93620
.597	.448	.24250	2619.00000	2059.00000	1.04470	1.03420	.98720	.98410	.95360	.94710	.93750
.597	.548	.24140	2619.00000	2057.60001	1.03970	1.02940	.98750	.98070	.95270	.94700	.93590
.598	.657	.25290	2619.70001	2056.79999	1.03440	1.02170	.98430	.98170	.95210	.94520	.93400
.597	.771	.24328	2619.70001	2059.00000	1.02350	1.01260	.97830	.97520	.94660	.94330	.93910
.598	.882	.23290	2619.70001	2056.79999	.99910	.99080	.96490	.96530	.93650	.94440	.93410
.597	.982	.23560	2619.70001	2058.29999	.96560	.96810	.94760	.94800	.92100	.90890	.91750
.597	GRADIENT	.00058	.00001	.17051	.00083	.08061	.00136	.00166	.08010	.00037	.00034

RUN NO. 249/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.08/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.040	.21850	2116.89999	1250.89999	1.15820	1.13190	.97530	.94780	.88010	.86380	.87800
.900	.252	.24140	2116.89999	1250.89999	1.16750	1.13930	.97620	.97620	.88370	.86710	.88380
.900	.361	.23800	2117.60001	1252.39999	1.17350	1.13630	.98530	.98530	.88430	.86830	.88060
.900	.488	.23560	2117.60001	1252.39999	1.16270	1.13220	.98670	.98530	.87220	.85490	.87460
.901	.630	.24210	2117.60001	1250.89999	1.15670	1.12640	.98530	.98530	.87890	.86130	.88730
.900	.745	.23900	2117.60001	1251.60001	1.14370	1.11480	.99850	.99850	.86360	.84730	.87240
.900	.882	.25030	2117.60001	1253.10001	1.13020	1.10030	.99850	.99850	.85360	.84200	.86660
.900	.982	.24520	2117.60001	1252.39999	1.11300	1.08410	.99820	.99820	.83860	.82920	.85950
.900	GRADIENT	.23020	2115.39599	1250.89999	1.06760	1.03860	.98760	.98760	.79840	.78900	.82250
.899	.458	.21520	2115.39999	1252.39999	.98370	.95690	.95040	.95040	.75390	.71810	.73550
.899	GRADIENT	.00544	.00000	.00060	.00221	.00176	.08637	.00674	.00085	.00078	.00119

RUN NO. 243/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.980	.052	.23560	2062.39999	1115.60001	1.23180	1.19980	1.02230	.98270	.79530	.76540	.80030
.980	.278	.22810	2064.50000	1117.10001	1.24000	1.20340	1.02300	1.01240	.79070	.77440	.80120
.980	.404	.23920	2064.50000	1116.39999	1.24570	1.20150	1.02660	1.02660	.79580	.77410	.79830
.978	.558	.24730	2063.10001	1117.80000	1.23450	1.19330	1.02940	1.02940	.78660	.76660	.79110
.978	.719	.24190	2063.10001	1117.80000	1.23030	1.18440	1.03250	1.03250	.77450	.74200	.77530
.980	.857	.22600	2064.50000	1116.39999	1.21180	1.17250	1.03970	1.03970	.76430	.72620	.77380
.980	.975	.22660	2062.39999	1120.70000	1.19060	1.15500	1.05120	1.04050	.75480	.72690	.73360
.980	GRADIENT	.23200	2063.79999	1116.39999	1.17590	1.13980	1.05370	1.03920	.73640	.70690	.69280
.979	.446	.21030	2065.20001	1117.80000	1.12720	1.08780	1.02910	1.01890	.71560	.68650	.69280
.979	.621	.19000	2065.20001	1117.80000	1.08350	1.02550	.99120	.98180	.67960	.64540	.61150
.979	GRADIENT	.00177	.49588	.35431	.00194	.00985	.00663	.00703	.00142	.00142	.00021

(AETR35) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = .000 ELEVOM = .000
AILRON = 10.000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 238/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.038	.048	.22030	2003.70000	940.39000	1.37840	1.33180	1.13470	1.07690	.71730	.68920	.70500
1.099	4.278	.22620	2005.10001	940.40000	1.38030	1.33400	1.16330	1.10530	.71530	.69990	.69990
1.037	6.408	.23350	2004.39999	942.49000	1.38420	1.32710	1.17360	1.12600	.71250	.68950	.68760
1.099	8.569	.24950	2005.10001	940.40000	1.36860	1.31990	1.17840	1.12760	.71390	.68770	.69740
1.098	10.730	.24670	2003.70000	941.09000	1.35760	1.30630	1.17760	1.13470	.70820	.67970	.69820
1.099	12.883	.24110	2005.80000	942.50000	1.33960	1.28660	1.17420	1.13180	.69760	.66357	.67240
1.099	15.061	.24310	2005.10001	940.40000	1.32180	1.27160	1.16540	1.13750	.68900	.65150	.65100
1.099	17.232	.23650	2004.39999	942.49000	1.29750	1.24270	1.14980	1.12110	.68000	.63350	.62310
1.099	21.523	.22730	2003.70000	940.39000	1.23900	1.18620	1.09340	1.03000	.61440	.59050	.59050
1.099	25.732	.22800	2003.70000	936.68000	1.17550	1.12680	1.03490	1.01540	.63820	.61390	.55520
	GRADIENT	.00140	.33103	.00237	.00092	.00052	.00676	.00672	-.00047	.00066	-.00121

RUN NO. 233/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.199	.047	.22580	2007.89999	829.68000	1.45950	1.40070	1.20270	1.12020	.67430	.64550	.65540
1.200	4.265	.23500	2007.20000	827.59000	1.46510	1.39290	1.22980	1.12960	.65690	.62910	.64610
1.200	6.463	.24050	2006.50000	826.69000	1.47210	1.38900	1.23050	1.13830	.65810	.63540	.64580
1.199	8.563	.24350	2007.20000	835.95000	1.43980	1.36710	1.22110	1.12190	.66600	.64030	.64030
1.197	10.734	.24330	2009.39999	831.78000	1.43730	1.36230	1.19630	1.09370	.66740	.62960	.62650
1.199	12.890	.24030	2007.89999	831.07000	1.42100	1.34600	1.16110	1.08480	.65530	.61810	.62150
1.199	15.051	.24250	2009.39999	833.17000	1.39910	1.32070	1.14440	1.07550	.63190	.58610	.58610
1.199	17.219	.23730	2008.60001	830.38000	1.37970	1.30070	1.12680	1.07150	.62340	.57830	.56760
1.199	21.521	.22380	2011.50000	831.10000	1.31870	1.24140	1.07570	1.05070	.62120	.58770	.55750
1.199	25.740	.22720	2007.89999	828.99000	1.23420	1.19340	1.02490	1.03430	.59580	.56440	.50730
	GRADIENT	.00218	-.16594	-.49547	.00133	-.00185	.00500	.00223	-.00175	-.00154	-.00220

RUN NO. 228/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.402	.038	.21020	2028.50000	635.54000	1.67350	1.56670	1.20120	1.12950	.59650	.57890	.59210
1.402	4.208	.20670	2028.50000	637.11000	1.66910	1.56250	1.21590	1.13210	.60190	.58210	.58910
1.399	6.327	.20650	2028.50000	638.59000	1.67260	1.53530	1.21820	1.13300	.60090	.57250	.57730
1.397	8.485	.23980	2029.20000	640.78000	1.63870	1.51490	1.21170	1.13160	.60140	.56640	.55750
1.399	10.643	.23370	2029.20000	641.53000	1.62470	1.49930	1.19430	1.12900	.60050	.56220	.55720
1.399	12.782	.21750	2029.20000	640.78000	1.60880	1.48000	1.19930	1.13810	.59200	.55620	.54510
1.399	14.942	.20670	2029.20000	638.57000	1.59310	1.45960	1.18430	1.13530	.58620	.54240	.52820
1.399	17.106	.20670	2029.20000	638.57000	1.56750	1.44370	1.16870	1.13070	.57990	.54570	.51720
1.399	21.419	.23880	2030.80001	642.96000	1.50330	1.46370	1.12230	1.11000	.56990	.54940	.47570
1.400	25.672	.25370	2029.20000	637.83000	1.44750	1.34670	1.09980	1.07840	.55610	.47930	.45720
	GRADIENT	-.00083	.00000	.35001	-.00105	-.00338	.00350	.00062	-.00119	.00076	-.00077

(AE7R35) (02 AUG 75)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALLRON = 10.000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 255/ 0 RN/L = 4.2% GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.095	2.28910	2618.29999	2058.29999	1.03240	1.05170	.97260	.98070	.95200	.94490	.95370
.597	.196	2.33120	2618.29999	2058.29999	1.03740	1.05640	.98030	.98970	.95210	.94440	.95750
.596	.366	2.34230	2618.29999	2058.29999	1.03400	1.05310	.98240	.99030	.95270	.94520	.95740
.599	.472	2.35710	2593.07000	2035.60001	1.03010	1.05020	.97880	.98290	.95120	.94450	.95790
.597	.621	2.34840	2592.89999	2038.39999	1.02430	1.04390	.97790	.99000	.95250	.94440	.95660
.597	.762	2.33270	2593.60001	2042.00000	1.01490	1.03430	.97260	.98760	.94250	.94250	.95390
.597	.905	2.32700	2594.29999	2039.10001	1.00710	1.02640	.96820	.98430	.94360	.94360	.95080
.598	21.115	2.31440	2595.00000	2037.70000	.98310	1.00310	.95230	.97440	.93980	.94430	.94230
	GRADIENT	.01027	.00000	.00001	.00122	.00115	.00183	.00219	.00002	.00012	.00093

RUN NO. 247/ 0 RN/L = 4.2% GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.899	.030	2.31610	2113.29999	1251.70000	1.12260	1.16510	.95600	.96640	.87990	.86090	.87840
.892	.248	2.33610	2113.29999	1251.70000	1.13090	1.17210	.98440	.99500	.88520	.86480	.87670
.897	.378	2.33680	2114.00000	1253.89999	1.13760	1.17130	.99440	1.00430	.88160	.86600	.88280
.896	.499	2.33440	2113.29999	1255.30000	1.12780	1.16430	.99570	1.00580	.88200	.86300	.88240
.897	.635	2.33660	2114.00000	1253.89999	1.11940	1.15880	.99940	1.01930	.87590	.85990	.87810
.900	.808	2.32330	2114.00000	1250.20000	1.11040	1.15190	1.00240	1.01640	.86260	.85110	.86460
.898	.963	2.35370	2114.00000	1253.10001	1.09490	1.13480	.99500	1.02320	.85480	.84070	.85890
.997	17.138	2.35010	2113.29999	1253.10001	1.07760	1.11820	.98960	1.01820	.82250	.80260	.81280
.902	21.357	2.32550	2115.39999	1248.10001	1.02990	1.07320	.96450	1.00260	.79060	.77590	.78040
	GRADIENT	.00332	.00000	.00000	.00197	.00166	.00673	.00678	.00126	.00092	.00040

RUN NO. 244/ 0 RN/L = 4.2% GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.980	.062	2.30100	2065.20001	1117.10001	1.19230	1.23920	1.00280	1.00470	.78680	.75850	.76560
.978	.293	2.34190	2064.50000	1118.50001	1.19850	1.24430	1.03950	1.03620	.79250	.77150	.80890
.983	.576	2.34320	2066.60001	1117.80000	1.19460	1.23650	1.04600	1.05990	.79100	.75360	.78450
.977	.733	2.33640	2062.39999	1119.20000	1.18160	1.22570	1.04620	1.05850	.77740	.75180	.78560
.976	.901	2.31000	2065.20001	1121.39999	1.16740	1.21130	1.04420	1.05780	.75650	.75580	.76670
.976	15.066	2.34640	2065.20001	1118.50000	1.14450	1.19720	1.03910	1.06880	.72520	.72520	.75410
.979	.979	2.36270	2063.10001	1117.10001	1.13500	1.18060	1.03430	1.06590	.75350	.71680	.74530
.979	21.527	2.32920	2063.79999	1117.10001	1.08740	1.13880	1.00530	1.04520	.71660	.69300	.70080
	GRADIENT	.00959	.16581	.33163	.00147	.00121	.00636	.00746	.00135	.00308	.00554

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER.

(AE7R58) (02 AUG 76)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0360

PARAMETRIC DATA

BETA = 2.000 ELEVOM = .000
 AILROM = 10.000 BDFLAP = -7.170

RUN NO. 237/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.097	.045	2.32820	2003.00000	941.78000	1.32636	1.38130	1.11298	1.10620	.71540	.68650	.68698
1.098	4.283	2.31060	2003.70000	939.68000	1.32898	1.38590	1.14240	1.13970	.71270	.68600	.68550
1.098	8.585	2.33010	2003.00000	940.38000	1.32156	1.37090	1.15868	1.15860	.70880	.68080	.68110
1.099	10.754	2.32550	2005.10001	940.40000	1.30740	1.35690	1.16110	1.15960	.70530	.67540	.68600
1.099	12.926	2.31480	2005.80000	941.10000	1.29160	1.34170	1.15250	1.15100	.69750	.67360	.67360
1.099	15.117	2.36570	2004.39999	943.89000	1.26740	1.31570	1.16950	1.16950	.69260	.67100	.68990
1.097	17.338	2.36160	2004.39999	941.79000	1.24450	1.29310	1.12150	1.15090	.68520	.67030	.67230
1.100	21.622	2.34450	2005.10001	939.70000	1.18530	1.23350	1.05620	1.07150	.65540	.57810	.59780
	GRADIENT				.00153	.08109	.00696	.00799	-.00064	-.00012	-.00033

RUN NO. 234/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.198	.060	2.30060	2008.60001	830.38000	1.40380	1.45760	1.16920	1.15410	.67070	.64220	.64650
1.198	4.270	2.32910	2007.20000	829.68000	1.40570	1.45370	1.19710	1.16330	.68490	.63420	.63910
1.195	8.588	2.34410	2008.60001	833.85000	1.38900	1.43490	1.19910	1.15720	.66450	.62840	.63310
1.195	10.751	2.33970	2008.60001	832.47000	1.37860	1.42370	1.15050	1.13410	.66190	.62010	.62710
1.195	12.933	2.31970	2008.60001	833.17000	1.36320	1.40680	1.12250	1.12498	.65760	.60230	.61860
1.196	15.106	2.37410	2008.60001	833.17000	1.34340	1.38350	1.09768	1.12440	.64350	.58260	.60310
1.196	17.328	2.38290	2008.60001	831.77000	1.32110	1.36590	1.08330	1.12320	.63980	.59390	.58470
1.197	21.612	2.35270	2010.10001	829.00000	1.28490	1.31260	1.03940	1.10500	.63770	.55690	.57660
1.200	GRADIENT				.00064	-.00093	.00663	.00266	-.00138	-.00190	-.00176

RUN NO. 227/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.402	.010	2.30820	2028.50000	635.64000	1.60880	1.63980	1.15070	1.18120	.59330	.57730	.57380
1.401	4.214	2.32120	2027.70000	636.39000	1.60256	1.63320	1.17620	1.18210	.59610	.57340	.55990
1.397	8.508	2.33320	2027.70000	643.67000	1.57810	1.59890	1.16870	1.18480	.59300	.56090	.55590
1.396	10.663	2.33210	2029.20000	641.52000	1.55810	1.57700	1.14840	1.19600	.58720	.56360	.54430
1.397	12.833	2.32800	2028.50000	640.06000	1.54230	1.56110	1.15240	1.18650	.58480	.56500	.53480
1.396	15.008	2.35150	2028.20000	639.31000	1.52710	1.54330	1.13010	1.19770	.58610	.52760	.52370
1.400	17.223	2.37950	2028.50000	637.11000	1.49740	1.52550	1.10910	1.19560	.58520	.52900	.50898
1.387	21.517	2.34990	2031.30000	641.48000	1.43480	1.47480	1.06240	1.16880	.57480	.52220	.49340
	GRADIENT				.00040	-.00159	.00636	.00921	-.00067	-.00093	-.00312

(AE7R37) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = 10.000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 479.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	PT	P	RM/L	4.24	GRADIENT	INTERVAL	-5.00/	5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.598	.108	5.38070	2593.60001	2037.00000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.01000	1.07470	.96400	.99350	.95160	.94370	.93320
.598	.211	5.40400	2593.60001	2037.00000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.01460	1.07990	.96950	1.00200	.95220	.94430	.93290
.598	.389	5.41850	2594.29999	2037.00000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.01373	1.07630	.96980	1.00450	.95070	.94180	.93310
.596	.10.508	5.41650	2595.00000	2037.00000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.00833	1.07320	.96820	1.00450	.95260	.94210	.93160
.597	.12.631	5.41360	2594.29999	2038.39999	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.00253	1.06790	.96490	1.00790	.95370	.94180	.93190
.597	.14.753	5.41020	2595.00000	2038.39999	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	.99423	1.06040	.96120	1.00390	.95310	.94560	.93450
.597	.16.861	5.40900	2594.29999	2039.10001	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	.98743	1.05090	.95580	1.00160	.95130	.94680	.93840
.599	.21.074	5.41790	2595.00000	2036.30000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	.96283	1.03000	.94090	.99440	.94680	.92788	.93840
GRADIENT		.00558	.00000	.00000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	.00112	.00127	.00134	.00207	.00015	.00015	.00007

MACH	ALPHA	BETA	PT	P	RM/L	4.22	GRADIENT	INTERVAL	-5.00/	5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.059	5.40050	2116.20001	1251.70000	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.07420	1.21880	.93690	.99770	.87500	.85070	.87020
.899	.4.262	5.43190	2114.70001	1251.70000	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.08330	1.22630	.96210	1.02640	.87870	.85640	.87450
.931	.6.396	5.42810	2118.29999	1251.60001	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.08880	1.22420	.96920	1.03710	.87130	.84920	.86860
.898	.8.522	5.43670	2116.89999	1252.39999	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.08320	1.22330	.97790	1.04090	.87550	.85660	.87820
.899	.10.674	5.42290	2116.89999	1252.39999	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.07070	1.21680	.98100	1.04750	.87080	.84980	.87190
.898	.12.799	5.42570	2116.20001	1254.50000	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.06270	1.20340	.97540	1.05690	.86540	.84960	.87250
.898	.14.943	5.43870	2118.29999	1252.30000	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.04807	1.19320	.96930	1.05270	.85080	.83850	.85150
.900	.17.078	5.46120	2116.20001	1254.50000	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	1.02360	1.17270	.96110	1.05520	.84930	.82690	.82200
.899	.21.368	5.46310	2116.20001	1252.39999	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	.97810	1.13250	.93410	1.04530	.80770	.79400	.80102
GRADIENT		.00747	.35686	.00000	0	4.22	GRADIENT	INTERVAL	-5.00/	5.00	.00216	.00178	.00597	.00683	.00088	.00136	.00102

MACH	ALPHA	BETA	PT	P	RM/L	4.24	GRADIENT	INTERVAL	-5.00/	5.00	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.979	.053	5.40930	2064.50000	1117.10001	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.13460	1.29950	.98190	1.04240	.79130	.76300	.76570
.981	.4.295	5.42730	2063.79999	1114.89999	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.14430	1.30790	1.00900	1.07570	.79350	.76490	.76640
.976	.6.581	5.42550	2063.10001	1120.60001	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.13450	1.29330	1.02010	1.08770	.80220	.76870	.81460
.978	.10.755	5.40110	2068.10001	1120.60001	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.12570	1.28550	1.02300	1.09630	.79460	.75460	.79320
.981	.12.907	5.40970	2063.79999	1114.20000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.11460	1.27850	1.01870	1.10780	.77280	.74280	.77610
.982	.15.053	5.41750	2067.39999	1115.60001	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.09970	1.26360	1.01140	1.10180	.76560	.73300	.76540
.979	.17.205	5.45630	2064.50000	1117.10001	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.07530	1.24380	1.00130	1.10690	.75870	.72630	.74520
.953	.21.505	5.45980	2066.50001	1114.20000	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	1.02710	1.20090	.90640	1.09310	.71830	.68170	.70310
GRADIENT		.00425	.16541	.51987	0	4.24	GRADIENT	INTERVAL	-5.00/	5.00	.00259	.00198	.00640	.00787	.00052	.00045	.00040

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(AE7R37) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BPET = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000' ELEVON = .000
AILRON = 10.000 BDFLAP = -7.170

RUN NO. 236/ 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.100	.071	5.39930	2004.39999	938.30000	1.25770	1.45750	1.07930	1.14950	.70680	.67380	.67770
1.100	.304	5.43540	2004.39999	939.00000	1.26510	1.46140	1.11510	1.18580	.70490	.67740	.68480
1.097	6.803	5.43090	2005.10001	942.50000	1.25040	1.44588	1.13180	1.20040	.69490	.67490	.67150
1.098	10.782	5.41110	2005.80000	941.80000	1.23990	1.43160	1.12620	1.20290	.68650	.66310	.66650
1.098	12.931	5.41090	2005.50000	941.81000	1.22070	1.41440	1.12060	1.20560	.68110	.65950	.66630
1.098	15.088	5.42770	2004.39999	943.89000	1.19930	1.39740	1.10620	1.20010	.68500	.64610	.65990
1.098	17.257	5.46370	2005.80000	941.10000	1.17510	1.37870	1.09330	1.20620	.68500	.64150	.65790
1.100	21.559	5.49500	2005.10001	939.00000	1.11360	1.32420	.97300	1.15170	.65310	.59560	.62780
1.100	GRADIENT	.00853	.00000	.16535	.00175	.00092	.00846	.00857	-.00002	.00065	.00168

RUN NO. 235/ 0 RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.197	.076	5.43020	2007.20000	831.07000	1.32640	1.55240	1.13610	1.20780	.68860	.63880	.63790
1.198	4.288	5.42440	2007.20000	829.68000	1.32790	1.54390	1.16110	1.22260	.68950	.63840	.64330
1.194	8.600	5.43350	2008.60001	834.56000	1.31250	1.52820	1.16430	1.22000	.68600	.62740	.63410
1.199	10.777	5.42010	2009.39999	831.09000	1.30260	1.52190	1.10520	1.20310	.65990	.62090	.62488
1.196	12.924	5.43270	2009.60001	833.17000	1.28860	1.50340	1.06750	1.18160	.66130	.61060	.62340
1.196	15.089	5.44150	2010.10001	833.18000	1.26230	1.48210	1.04790	1.18100	.65690	.59370	.62080
1.197	17.248	5.48020	2009.60001	831.77000	1.23920	1.46350	1.02240	1.18420	.64370	.59490	.60580
1.197	21.558	5.50130	2006.50000	830.36000	1.17650	1.41450	.97360	1.17880	.62760	.55650	.61180
1.197	GRADIENT	-.00138	.00000	-.33003	.00036	-.00202	.00596	.00351	-.00002	-.00009	.00128

RUN NO. 226/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.400	.048	5.43790	2028.50000	637.11000	1.50490	1.76310	1.09510	1.26150	.59210	.58150	.55440
1.400	4.241	5.44000	2028.50000	637.15000	1.51430	1.75710	1.11030	1.26010	.59840	.58470	.55230
1.396	8.520	5.43910	2028.50000	640.79000	1.47980	1.72670	1.09840	1.26650	.58970	.55660	.54270
1.397	10.695	5.40870	2028.50000	640.76000	1.46190	1.71360	1.09930	1.27310	.59370	.55390	.54300
1.397	12.837	5.44610	2029.20000	642.78000	1.44390	1.69730	1.07510	1.26340	.59050	.52270	.53160
1.398	14.993	5.43750	2029.50000	639.32000	1.42110	1.67840	1.06220	1.26590	.59070	.50630	.52610
1.397	17.154	5.47310	2029.20000	640.78000	1.38670	1.65360	1.03360	1.28770	.59670	.49220	.51300
1.397	21.474	5.50090	2029.89999	639.56000	1.33120	1.60740	.97810	1.27270	.56970	.48190	.51320
1.399	GRADIENT	.00050	-.52461	.00954	.00238	-.00143	.00362	-.00033	.00150	.00076	-.00058

(AETW38) (02 AUG 76)

PARAMETRIC DATA

BETA = -8.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 996.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 263/ 0 RV/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.300	1.211	-7.94770	4128.29999	1.02540	.99530	1.00430	.98890	1.00520	1.00310	.98900
.299	2.173	-7.89310	4128.29999	1.02540	.99560	1.00510	.98920	1.00480	1.00260	.98890
.299	4.173	-7.83830	4128.29999	1.02540	.99570	1.00610	.98910	1.00490	1.00330	.98920
.299	6.192	-7.78350	4128.29999	1.02550	.99560	1.00690	.98940	1.00460	1.00310	.98960
.299	8.230	-7.72870	4128.29999	1.02590	.99510	1.00630	.98940	1.00420	1.00250	.98960
.299	10.271	-7.67390	4128.29999	1.02470	.99380	1.00590	.98870	1.00380	1.00190	.98900
.299	12.315	-7.61910	4128.29999	1.02310	.99250	1.00580	.98770	1.00420	.99910	.98890
.299	14.372	-7.56430	4128.29999	1.02120	.99050	1.00480	.98660	1.00350	.98740	.98830
.299	16.417	-7.50950	4128.29999	1.01990	.98840	1.00390	.98510	1.00270	.98560	.98790
.299	18.471	-7.45470	4128.29999	1.01840	.98630	1.00300	.98360	1.00160	.98270	.98670
.299	20.528	-7.39990	4128.29999	1.01690	.98420	1.00170	.98150	1.00030	.98940	.98520
.299	22.559	-7.34510	4128.29999	1.00970	.97930	.99970	.97910	1.01350	.98610	.98330
.299	24.623	-7.29030	4128.29999	1.00580	.97550	.99770	.97700	1.01570	.98510	.98220
.299	25.643	-7.23550	4128.29999	1.00340	.97350	.99670	.97580	1.01690	.98540	.98220
GRADIENT		.01422	.00000	.00035	.00012	.00059	.00005	.00808	.00111	.00008

RUN NO. 264/ 0 RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	1.221	-8.00730	2532.70001	1.10850	.98210	1.01590	.94940	1.01870	1.01110	.95260
.596	2.205	-7.95330	2532.70001	1.10910	.98070	.01830	.94930	1.01810	1.00880	.95080
.596	4.240	-7.89370	2532.70001	1.11100	.98240	1.2310	.96120	1.01660	1.01710	.95150
.597	6.303	-7.83350	2532.70001	1.11320	.98190	1.02640	.95350	1.01720	.01070	.95040
.597	8.386	-7.77370	2532.70001	1.10920	.97900	1.02530	.95220	1.01370	1.08970	.94600
.597	10.476	-7.71390	2532.70001	1.10600	.97630	1.02670	.95150	1.01270	1.01100	.95180
.597	12.577	-7.65410	2532.70001	1.10200	.97090	1.02520	.94960	1.01390	1.00560	.95020
.597	14.685	-7.59430	2532.70001	1.09280	.96210	1.02220	.94330	1.02230	1.00560	.95020
.596	16.778	-7.53450	2532.70001	1.08250	.95430	1.02040	.93940	1.03210	1.01160	.94630
.595	18.884	-7.47470	2532.70001	1.07070	.94070	1.01590	.93270	1.03610	1.01120	.93710
.595	20.989	-7.41490	2532.70001	1.05810	.93110	1.01070	.92620	1.04930	1.00430	.93230
.597	23.075	-7.35510	2532.70001	1.04790	.91920	1.00360	.91760	1.05730	.99070	.92300
.597	25.131	-7.29530	2532.70001	1.03250	.89980	.99690	.90690	1.06820	.98160	.91980
.598	26.132	-7.23550	2532.70001	1.02330	.89410	.99030	.90350	1.07120	.97710	.91480
GRADIENT		.00528	.00003	.00084	.00021	.00038	.00064	.00070	.00026	.00024

(AETR39) (02 AUG 75)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
A-ILRON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + PROBES

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8800 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 262/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.295	1.154	-4.9109C	4127.59998	3879.60001	1.01980	1.00036	1.00110	.99110	1.00370	1.00140	.98910
.299	2.137	-4.90160	4127.59998	3878.89999	1.02050	1.00070	1.00200	.99130	1.00410	1.00180	.98960
.299	4.135	-4.91230	4127.59998	3879.60001	1.02090	1.00080	1.00250	.99160	1.00390	1.00120	.98940
.299	5.165	-4.90710	4127.59998	3879.60001	1.02140	1.00050	1.00300	.99120	1.00350	1.00100	.98970
.299	6.203	-4.90440	4127.59998	3879.60001	1.02030	.99950	1.00290	.99100	1.00300	.99930	.98980
.298	10.263	-4.89420	4127.59998	3880.29999	1.01930	.99900	1.00230	.99070	1.00230	.99900	.98980
.298	12.320	-4.85770	4127.59998	3880.29999	1.01790	.99720	1.00180	.99030	1.00450	1.00280	.98980
.298	14.369	-4.83150	4127.59998	3880.29999	1.01560	.99540	1.00080	.98930	1.00570	.99920	.98980
.299	16.404	-4.82850	4127.59998	3879.60001	1.01360	.99340	1.00050	.98780	1.00730	.99690	.98950
.299	18.473	-4.86420	4127.59998	3879.60001	1.01090	.99320	.99920	.98630	1.00890	.99470	.98950
.299	20.528	-4.87620	4128.29999	3880.29999	1.00760	.99140	.99680	.98420	1.01090	.99190	.98910
.299	22.584	-4.88070	4127.59998	3879.60001	1.00420	.98420	.99490	.98260	1.01320	.98910	.98950
.299	24.637	-4.87430	4128.29999	3880.29999	.99970	.97970	.98260	.98010	1.01450	.98320	.98930
.299	25.658	-4.86300	4128.29999	3878.89999	.99800	.97830	.98150	.97970	1.01570	.98370	.98970
GRADIENT		-0.0123	-0.0007	.05129	.00034	.00015	.00044	.00017	.00004	.00000	.00007

RUN NO. 265/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	1.137	-4.93370	2530.60001	1990.89999	1.08640	1.00300	1.00330	.99949	1.01390	1.00380	.98460
.595	2.165	-4.93650	2531.29999	1991.70000	1.08550	1.00330	1.00550	.99920	1.01450	1.00510	.98380
.595	4.201	-4.93840	2532.00000	1990.89999	1.08970	1.00420	1.01080	.98260	1.01480	1.00330	.98380
.595	6.274	-4.93030	2532.00000	1991.60001	1.09080	1.00370	1.01140	.98310	1.01290	1.00270	.98450
.595	8.358	-4.92160	2532.00000	1990.89999	1.08740	1.00060	1.01030	.98040	1.01070	1.00530	.98680
.595	10.463	-4.90970	2532.70001	1991.70000	1.08260	.99630	1.00970	.98220	1.01140	1.00750	.98650
.595	12.572	-4.89480	2533.39999	1993.10001	1.07590	.98890	1.00830	.98970	1.01510	1.00100	.98710
.597	14.683	-4.87590	2533.39999	1990.89999	1.06990	.98410	1.00870	.98530	1.02170	1.00320	.98540
.597	16.764	-4.87650	2533.39999	1993.50000	1.06130	.97500	1.00550	.98200	1.02490	1.00590	.98160
.597	18.833	-4.92430	2533.39999	1991.70000	1.05020	.96310	.99970	.98530	1.03600	1.00440	.98170
.597	20.934	-4.93680	2533.39999	1990.89999	1.03870	.95020	.99250	.98990	1.04610	.99350	.98240
.597	23.065	-4.90700	2533.39999	1991.70000	1.02260	.93570	.98500	.98330	1.05380	.98350	.98350
.597	25.165	-4.89560	2533.39999	1991.70000	1.00810	.91890	.97550	.98110	1.06310	.97420	.98390
.597	26.161	-4.87530	2533.39999	1989.50000	1.00090	.91350	.97200	.91650	1.06770	.97110	.91300
GRADIENT		-0.0144	.44106	-.05523	.00101	.00040	.00247	.00109	.00027	-.08026	.00047

REFERENCE DATA

PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA =
 ATLRON =
 ELEVON = .000
 EDFLAP = -7.170

RUN NO. 261/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.299	1.120	-1.65800	4128.29999	3879.60001	1.01480	1.08320	.99840	.99320	1.00380	1.00370	.99320
.300	2.103	-1.85330	4123.00000	3879.60001	1.01550	1.00570	.99910	.99350	1.00410	1.00080	.99020
.300	4.110	-1.84130	4129.00000	3879.60001	1.01560	1.00520	.99950	.99380	1.00430	1.00030	.99040
.300	6.141	-1.83440	4129.00000	3879.60001	1.01550	1.00560	1.00010	.99410	1.00410	1.00110	.98990
.299	8.178	-1.84120	4129.00000	3880.29999	1.01520	1.00500	.99950	.99370	1.00370	1.00237	.99380
.299	10.234	-1.84360	4129.00000	3880.29999	1.01410	1.00350	.99880	.99330	1.00280	1.00180	.99030
.300	12.305	-1.84210	4129.00000	3879.60001	1.01300	1.00270	.99860	.99320	1.00240	.99440	.99060
.300	14.351	-1.77230	4129.00000	3879.60001	1.01070	1.00120	.99820	.99320	1.00230	.99440	.99060
.299	16.412	-1.83130	4129.00000	3880.29999	1.00830	.99810	.99850	.99380	1.00750	.99550	.98940
.300	18.491	-1.84360	4129.00000	3879.60001	1.00570	.99570	.99500	.99360	1.00330	.99130	.98720
.299	20.571	-1.84770	4129.00000	3880.29999	1.00240	.98870	.99110	.98570	1.01200	.99330	.98560
.299	22.611	-1.84190	4128.29999	3880.29999	.99870	.98870	.99110	.98570	1.01200	.99330	.98560
.299	24.656	-1.82200	4128.29999	3880.29999	.99430	.98540	.98820	.98340	1.01290	.98550	.98190
.299	25.667	-1.80860	4127.59998	3879.60001	.99280	.98310	.98740	.98220	1.01290	.98550	.98190
GRADIENT	.00853	.19958	.00000	.00000	.00024	.00022	.00034	.00019	.00016	.00024	.00027

RUN NO. 266/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	1.095	-1.85260	2531.29999	1991.70000	1.06380	1.02300	.99130	.98820	1.01400	1.00140	.99520
.596	2.127	-1.85930	2531.29999	1990.20000	1.06570	1.02560	.99390	.98920	1.01400	1.00140	.99520
.596	4.174	-1.84390	2532.00000	1990.89999	1.06930	1.02580	.99690	.97250	1.01520	.99910	.98730
.596	6.254	-1.84260	2532.00000	1990.89999	1.07030	1.02590	.99940	.97440	1.01520	.99940	.98740
.597	8.333	-1.84590	2532.00000	1989.50000	1.06570	1.02240	.99880	.97370	1.01420	1.00830	.98560
.596	10.439	-1.84040	2532.00000	1990.89999	1.06190	1.01750	.99690	.97170	1.01440	1.00910	.98440
.596	12.555	-1.83250	2532.00000	1991.60001	1.05460	1.01100	.99510	.97270	1.01510	1.00750	.98730
.597	14.645	-1.79390	2532.70001	1990.20000	1.04890	1.00590	.99470	.95950	1.00320	1.00130	.97750
.597	16.777	-1.86040	2532.70001	1990.20000	1.04020	.99530	.99350	.95310	1.00320	1.00140	.97750
.597	18.904	-1.86340	2532.70001	1992.89999	1.02830	.98440	.98360	.95950	1.00310	.99910	.97380
.597	21.035	-1.85560	2532.70001	1992.20000	1.01600	.97220	.97680	.95920	1.01200	.98560	.97130
.597	23.120	-1.84690	2532.70001	1990.89999	1.00620	.95740	.96980	.93560	1.01520	.98560	.97120
.597	25.187	-1.81620	2532.70001	1990.89999	.98620	.94340	.95980	.93560	1.01520	.98560	.97120
.597	27.172	-1.80260	2532.70001	1990.89999	.97650	.93500	.95390	.93130	1.01520	.98560	.97120
GRADIENT	.00347	.24355	.00000	.00000	.00174	.00079	.00174	.00143	.00033	.00033	.00054

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + PROBES

(AETRM41) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.176

RUN NO. 260/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.299	1.084	.19260	4127.59999	3878.89999	1.01160	1.00910	.99690	.99520	1.00410	1.00160	.99000
.299	2.036	.20570	4127.59999	3879.60001	1.01180	1.00940	.99710	.99560	1.00430	1.00130	.99010
.299	4.109	.20700	4127.59999	3880.29999	1.01170	1.00930	.99750	.99590	1.00460	.99980	.99020
.299	6.136	.21520	4127.59999	3879.60001	1.01260	1.00940	.99810	.99650	1.00460	1.00030	.99040
.299	8.176	.22280	4127.59999	3879.60001	1.01150	1.00880	.99750	.99540	1.00399	1.00099	.99020
.299	10.218	.22910	4127.59999	3880.29999	1.01040	1.00740	.99690	.99530	1.00330	1.00180	.99020
.299	12.260	.23410	4127.59999	3880.29999	1.00910	1.00610	.99640	.99450	1.00360	1.00150	.99020
.299	14.305	.23940	4127.59999	3880.29999	1.00720	1.00430	.99580	.99450	1.00400	1.00010	.99020
.299	16.375	.24400	4127.59999	3880.29999	1.00470	1.00180	.99400	.99340	1.00480	.99750	.99020
.299	18.446	.24800	4127.59999	3880.29999	1.00220	.99950	.99280	.99220	1.00670	.99410	.99020
.299	20.528	.25200	4127.59999	3880.29999	.99910	.99670	.99080	.99020	1.00880	.99070	.99020
.299	22.627	.25620	4128.29999	3880.29999	.99530	.99280	.98850	.98820	1.00970	.98730	.98460
.299	24.727	.26020	4128.29999	3880.29999	.99080	.98890	.98560	.98560	1.01120	.98530	.98340
.299	26.828	.26560	4128.29999	3880.29999	.98650	.98680	.98430	.98510	1.01170	.99530	.98130
.299	28.929	.27110	4128.29999	3880.29999	.00002	.00005	.00020	.00322	.00016	-.00062	.00006

GRADIENT

RUN NO. 267/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	1.090	.19810	2530.60001	1991.70000	1.04970	1.03570	.98430	.97650	1.01530	1.00470	.99560
.595	2.124	.20270	2531.29999	1990.20000	1.05140	1.03950	.98470	.97800	1.01660	1.00350	.99470
.595	4.175	.20870	2531.29999	1991.70000	1.05230	1.04060	.98770	.98000	1.01710	.99910	.98560
.595	6.245	.21680	2531.29999	1992.39999	1.05460	1.03930	.98980	.98190	1.01630	.99790	.98640
.595	8.336	.21990	2532.70001	1992.39999	1.05010	1.03630	.98880	.98100	1.01420	1.00160	.98760
.597	10.429	.21900	2533.39999	1991.70000	1.04640	1.03330	.98940	.97950	1.01310	1.00190	.98820
.597	12.522	.21800	2534.10001	1990.89999	1.04190	1.02710	.98960	.98020	1.01410	1.00140	.98580
.597	14.632	.22390	2534.10001	1991.60001	1.03400	1.01970	.98540	.97860	1.01390	1.00140	.98280
.597	16.750	.22010	2534.10001	1990.89999	1.02620	1.01150	.98130	.97580	1.01820	1.00340	.98800
.599	18.863	.21870	2534.10001	1990.20000	.01410	1.00130	.97340	.96540	1.02670	.98820	.98950
.598	21.001	.20460	2535.89999	1993.20000	1.00070	.98910	.96540	.95340	1.03560	.98680	.98950
.597	23.099	.20780	2535.60001	1993.10001	.98520	.97260	.95570	.94330	1.03810	.96770	.98950
.596	25.164	.21070	2535.60001	1994.50000	.96670	.95580	.94590	.94500	1.04560	.95990	.98950
.596	26.150	.20310	2535.60001	1991.70000	.95160	.95010	.94210	.94210	1.04970	.96430	.98950
.598	GRADIENT	.00336	.19469	.10314	.00079	.00060	.00115	.00111	.00054	-.00222	.00041

(AETRME) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0500

RUN NO. 259/ 0 RUN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PSI/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.298	1.090	2.24370	4126.90002	3881.00000	1.01240	.99490	.99690	1.00390	1.00190	.98930
.298	2.101	2.25250	4125.90002	3881.00000	1.01290	.99510	.99750	1.00420	1.00110	.98970
.298	4.112	2.27670	4126.90002	3881.00000	1.01270	.99570	.99810	1.00450	.99940	.98950
.298	5.147	2.28260	4126.90002	3881.00000	1.01290	.99610	.99850	1.00430	.99950	.98960
.297	8.189	2.29300	4126.90002	3881.00000	1.01220	.99580	.99780	1.00386	.99970	.98980
.297	10.247	2.30630	4126.90002	3881.00000	1.01140	.99460	.99740	1.00320	1.00190	.98970
.297	12.353	2.31170	4126.90002	3881.00000	1.01070	.99460	.99730	1.00310	1.00160	.98970
.297	14.456	2.31700	4126.90002	3881.00000	1.00950	.99330	.99590	1.00310	1.00050	.98940
.297	16.523	2.32310	4126.90002	3881.00000	1.00850	.99210	.99470	1.00300	.99770	.98720
.298	18.579	2.33910	4126.90002	3881.00000	1.00780	.99050	.99370	1.00300	.99390	.98690
.298	20.625	2.34420	4126.90002	3878.89999	1.00700	.98900	.99120	1.00310	.98770	.98510
.299	22.661	2.34880	4126.90002	3878.89999	.99230	.98410	.98880	1.00340	.98610	.98270
.299	24.695	2.36980	4127.59998	3881.00000	.99090	.98240	.98780	1.01000	.98600	.98150
.299	26.692	2.38240	4127.59998	3878.89999	.98600	.98240	.98240	1.01000	.98600	.98150
GRADIENT		.00725	.00000	.00021	.00007	.00027	.00038	.00019	.00083	.00804

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PSI/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	1.121	2.25250	2532.70001	1990.20000	1.03560	.97560	.98420	1.01560	1.00420	.95510
.597	2.132	2.27630	2534.10001	1990.89999	1.03600	.97750	.98550	1.01560	1.00180	.95520
.598	4.187	2.29490	2534.10001	1989.50000	1.03840	.98080	.98950	1.01790	.99850	.95620
.597	6.256	2.30340	2534.10001	1990.89999	1.03860	.98170	.99150	1.01700	.99790	.95450
.597	8.355	2.31090	2568.79999	2021.39999	1.03420	.98120	.98920	1.01460	.99550	.95570
.595	10.458	2.31090	2568.79999	2021.39999	1.03170	.98110	.98870	1.01350	1.00500	.95570
.595	12.613	2.30740	2568.79999	2020.70000	1.02630	.98010	.98900	1.01280	1.00140	.95570
.595	14.746	2.30740	2568.79999	2019.30000	1.02340	.97420	.98880	1.01420	1.00270	.95320
.595	16.890	2.29030	2568.79999	2019.30000	1.01830	.97420	.98880	1.01420	1.00330	.95320
.595	19.024	2.28270	2568.79999	2021.39999	1.00940	.96170	.96890	1.01190	.99540	.95320
.595	21.124	2.27580	2570.20001	2019.60001	1.00400	.95710	.96580	1.01220	.98400	.95320
.595	23.192	2.26400	2570.20001	2022.10001	.98740	.94650	.95780	1.02800	.96370	.95110
.595	25.232	2.25240	2569.50000	2019.30000	.95720	.93730	.94780	1.03790	.95710	.90678
.595	27.232	2.30570	2570.20001	2020.70000	.94360	.93310	.94360	1.04090	.96390	.90678
GRADIENT		.01313	.38963	.00095	.00168	.00168	.00168	.00080	.00182	.00058

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

(AETR43) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6300 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .1300

PARAMETRIC DATA

BETA =
 AIRLON =
 5.000 ELEVON = -.000
 .000 BDFAP = -7.170

RUN NO. 258/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.297	1.115	5.31100	4128.29999	3883.79999	1.00250	1.01740	.99230	.99970	1.00290	1.00000	.98870
.297	2.117	5.31120	4128.29999	3883.79999	1.00290	1.01780	.99280	1.00020	1.00330	.99990	.98900
.297	4.137	5.33120	4128.29999	3883.10001	1.00330	1.01830	.99310	1.00100	1.00360	.99990	.98950
.297	6.175	5.33870	4128.29999	3883.10001	1.00410	1.01820	.99360	1.00180	1.00370	1.00180	.98930
.297	8.225	5.34490	4128.29999	3884.50000	1.00230	1.01750	.99270	1.00090	1.00270	1.00160	.98970
.297	10.322	5.34180	4128.29999	3883.79999	1.00160	1.01680	.99270	1.00090	1.00240	1.00120	.98900
.297	12.370	5.34910	4128.29999	3884.50000	1.00020	1.01520	.99130	1.00020	1.00190	1.00100	.98910
.297	14.447	5.35510	4128.29999	3883.10001	.99850	1.01360	.99060	1.00000	1.00260	1.00100	.98840
.297	16.509	5.36200	4128.29999	3881.00000	.99620	1.01110	.98890	.99900	1.00240	.99980	.98740
.297	18.569	5.36950	4128.29999	3881.00000	.99350	1.00870	.98730	.99840	1.00360	.99460	.98780
.297	20.619	5.37420	4129.00000	3880.25999	.99030	1.00530	.98540	.99730	1.00410	.99120	.98720
.297	22.639	5.37820	4129.00000	3881.70001	.98560	1.00190	.98250	.99530	1.00490	.99570	.98420
.297	24.662	5.38120	4129.00000	3883.10001	.98270	.99910	.97940	.99310	1.00490	.99570	.98190
.297	26.683	5.38410	4129.00000	3881.70001	.98090	.99650	.97910	.99260	1.00560	.99550	.98190
.298	GRADIENT	.00665	.00007	-.24825	.00026	.00029	.00025	.00043	.00022	-.00003	.00026

RUN NO. 269/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	1.187	5.37510	2568.10001	2020.70000	1.01350	1.07530	.96640	.99560	1.01210	.99810	.95340
.595	2.204	5.37240	2568.10001	2020.00000	1.01440	1.07660	.96750	.99810	1.01360	.99790	.95360
.595	4.262	5.37190	2568.10001	2019.30000	1.01670	1.07830	.96930	1.00220	1.01350	.99690	.95260
.595	6.339	5.36930	2568.10001	2020.70000	1.01900	1.07710	.97090	1.00420	1.01270	1.00440	.95230
.595	8.421	5.36930	2568.10001	2021.39999	1.01320	1.07380	.97150	1.00460	1.01030	1.00550	.95270
.595	10.505	5.31520	2568.79999	2021.39999	1.01050	1.07040	.96930	1.00390	1.00650	1.00840	.95300
.595	12.591	5.30420	2568.79999	2022.10001	.99750	1.06490	.96640	1.00290	1.00690	1.00060	.95290
.595	14.673	5.32260	2568.79999	2020.00000	.99750	1.05910	.96370	1.00490	1.01020	1.00540	.95170
.595	16.759	5.32260	2568.79999	2020.70000	.99220	1.05120	.95720	1.00330	1.01070	1.00230	.94610
.595	18.835	5.34180	2568.79999	2024.20000	.97360	1.03690	.94680	.93460	1.01250	.99780	.94220
.595	20.991	5.35840	2568.10001	2022.10001	.96430	1.02730	.94300	.93170	1.01650	.99290	.93120
.595	23.075	5.35600	2568.79999	2022.10001	.94850	1.01390	.93250	.92480	1.01830	.99560	.93120
.595	25.155	5.37020	2569.50000	2022.80000	.93160	.99890	.92180	.91790	1.02290	.94310	.91960
.595	27.117	5.37890	2568.79999	2022.10001	.92450	.99090	.91680	.91280	1.02520	.95930	.90780
.595	GRADIENT	-.00022	.00000	-.43856	.00105	.00096	.00093	.00212	.00038	-.00040	-.00029

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

(AETR44) (02 AUG 75)

PARAMETRIC DATA

BETA = 6.000
AILRON = .000
ELEVON = .000
BOFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 257/ 0 RN/L = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.295	1.185	8.35750	4125.50000	3883.70001	.99790	1.02300	.99100	1.00310	1.00300	.99990	.98820
.294	2.174	8.37540	4123.90002	3886.60001	.99790	1.02270	.99110	1.00340	1.00320	.99970	.98850
.295	4.182	8.37530	4127.59998	3885.60001	.99850	1.02280	.99100	1.00410	1.00320	1.00070	.98810
.295	6.217	8.37270	4128.29999	3885.89999	.90880	1.02270	.99090	1.00470	1.00420	1.00170	.98880
.296	8.253	8.37780	4128.29999	3885.20001	.99740	1.02250	.99100	1.00440	1.00350	1.00220	.98890
.295	10.319	8.37200	4128.29999	3885.60001	.99660	1.02070	.98930	1.00410	1.00170	1.00210	.98780
.295	12.372	8.37380	4128.29999	3885.60001	.99480	1.01980	.98910	1.00380	1.00180	1.00150	.98820
.295	14.435	8.37570	4128.29999	3886.60001	.99330	1.01820	.98770	1.00350	1.00200	.99990	.98810
.295	16.477	8.35550	4128.29999	3885.20001	.99090	1.01580	.98620	1.00160	1.00230	.99750	.98827
.295	18.532	8.35790	4128.29999	3885.20001	.98840	1.01320	.98440	1.00100	1.00270	.99500	.98810
.295	20.574	8.35760	4128.29999	3885.89999	.98500	1.01020	.98220	.99970	1.00320	.98780	.98785
.294	22.587	8.39300	4128.29999	3887.29999	.98180	1.00630	.97950	.99520	1.00410	.98490	.98520
.294	24.599	8.40500	4128.29999	3887.29999	.97780	1.00300	.97710	.99750	1.00480	.98440	.98390
.295	25.580	8.42800	4128.29999	3885.89999	.97620	1.00130	.97570	.99550	1.00400	.98440	.98390
GRADIENT		.00507	.64938	.82648	.00021	-.00005	-.00001	.00034	.00007	.00030	-.00004

RUN NO. 270/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	1.188	8.42910	2567.39999	2021.39999	.99110	1.09640	.95620	1.00950	1.00870	.99450	.94710
.595	2.204	8.43440	2567.39999	2021.39999	.99140	1.09760	.95710	1.01190	1.00850	.99540	.94660
.595	4.256	8.43870	2567.39999	2020.70000	.99650	1.09970	.95960	1.01560	1.01160	.99740	.94840
.595	6.236	8.42250	2568.10001	2021.39999	.99650	1.09770	.95980	1.01840	1.01400	1.00290	.94790
.594	8.217	8.43010	2568.10001	2022.10001	.98970	1.09500	.95910	1.01830	1.01060	1.00250	.94770
.595	10.255	8.42330	2568.10001	2021.39999	.98790	1.09170	.95730	1.01850	1.00730	1.00570	.95120
.595	12.261	8.41790	2568.79999	2022.10001	.98220	1.08690	.95450	1.01860	1.00520	1.00010	.94910
.595	14.248	8.42180	2568.79999	2021.39999	.97520	1.07800	.94850	1.01970	1.00740	.99740	.94750
.595	16.229	8.40560	2568.79999	2020.00000	.96500	1.07060	.94360	1.01690	1.00770	.99290	.94610
.595	18.232	8.41200	2569.79999	2017.89999	.95540	1.06050	.93610	1.01370	1.01130	.98620	.94350
.594	20.220	8.42030	2568.79999	2023.50000	.94100	1.04590	.92680	1.00640	1.01130	.96900	.93720
.593	22.079	8.42720	2569.50000	2022.80000	.92670	1.03400	.91730	1.00400	1.01410	.95100	.93160
.593	23.079	8.43860	2569.50000	2022.80000	.90670	1.01990	.90680	.99230	1.01780	.94070	.92470
.595	25.131	8.44420	2569.50000	2020.70000	.90420	1.01160	.90270	.99030	1.02090	.95490	.92620
.595	26.100	8.44420	2569.50000	2020.70000	.90187	.00107	.00112	.00193	.00103	.00095	.00049
GRADIENT		-.00037	.00003	-.24456	.00187	.00107	.00112	.00193	.00103	.00095	.00049

REFERENCE DATA

SREF = 2690.0000 SQ.FT. RP = 1076.6800 IN. XO
LREF = 474.8000 IN. RP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = 15.000
AILRON = .000 BDFLAP = -7.170

RUN NO. 276/ 0 RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.295	.194	-4.89590	4102.90002	3860.39989	1.01980	1.00040	1.00060	.99120	1.00390	1.00130	.98770
.295	2.186	-4.89590	4102.90002	3861.10001	1.02610	1.00060	1.00200	.99140	1.00390	1.00080	.98700
.296	4.186	-4.89440	4102.90002	3860.39999	1.02040	1.00100	1.00290	.99200	1.00400	1.00100	.98760
.296	6.213	-4.88560	4102.90002	3861.10001	1.02100	1.00050	1.00290	.99160	1.00360	1.00070	.98810
.296	8.252	-4.88380	4103.59998	3861.79999	1.01960	.99960	1.00280	.99080	1.00400	1.00090	.98790
.296	10.303	-4.87440	4103.59998	3861.10001	1.01890	.99830	1.00220	.99110	1.00310	1.00080	.98820
.295	12.355	-4.84240	4103.59998	3861.10001	1.01740	.99690	1.00150	.99030	1.00450	.99300	.98890
.297	14.411	-4.81730	4103.59999	3860.39999	1.01570	.99570	1.00100	.98970	1.00610	.99710	.98850
.296	16.451	-4.81530	4103.59998	3861.10001	1.01310	.99320	1.00030	.98800	1.00730	.99420	.98790
.296	18.515	-4.84950	4103.59998	3861.10001	1.01010	.99070	.99900	.98630	1.00920	.99110	.98570
.297	20.573	-4.85930	4103.59998	3860.39999	1.00710	.98710	.99570	.99460	1.01150	.98800	.98590
.296	22.625	-4.85660	4103.59998	3861.79999	1.00340	.98390	.99480	.98230	1.01270	.98560	.98420
.296	24.678	-4.86310	4103.59998	3861.10001	.99940	.98030	.99250	.98010	1.01490	.98550	.98260
.296	25.668	-4.85920	4103.59998	3861.10001	.99740	.97790	.99150	.97900	1.01570	.98520	.98200
	GRADIENT	.00063	.00004	.00020	.00015	.00015	.00058	.00020	.00003	.00008	.00013

RUN NO. 277/ 0 RN/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.597	.238	-4.94770	2520.00000	1980.37000	1.09550	1.00290	1.00070	.95790	1.01390	1.00440	.94190
.597	2.262	-4.92880	2521.39999	1981.00000	1.08890	1.00400	1.00640	.96070	1.01530	1.00380	.94170
.597	4.305	-4.91990	2522.10001	1982.39999	1.08920	1.00370	1.00960	.96230	1.01440	1.00300	.94270
.597	6.384	-4.91390	2522.10001	1981.70000	1.09210	1.00420	1.01370	.96390	1.01340	1.00520	.94450
.597	8.471	-4.90340	2522.10001	1981.70000	1.08760	1.00080	1.01150	.96110	1.01160	1.01120	.94640
.599	10.574	-4.89610	2522.79999	1979.60001	1.08400	.99810	1.01140	.96440	1.01280	1.00610	.94730
.598	12.672	-4.88270	2522.10001	1981.00000	1.07750	.99060	1.00980	.96010	1.01670	1.00220	.94490
.597	14.764	-4.89160	2521.39999	1981.70000	1.07060	.98380	1.00940	.95600	1.02200	1.00370	.94140
.596	16.850	-4.88420	2522.10001	1983.20000	1.06030	.97250	1.00450	.95080	1.02840	1.00370	.93640
.596	18.973	-4.90200	2522.10001	1993.20000	1.04910	.96140	.99960	.94540	1.03670	.99790	.92340
.596	21.077	-4.90820	2522.10001	1983.89999	1.03550	.94610	.99230	.93680	1.04630	.99030	.92340
.597	23.157	-4.91330	2522.10001	1981.70000	1.02310	.93420	.98590	.92950	1.05560	.98050	.91950
.596	25.170	-4.87610	2522.10001	1981.00000	1.00780	.90950	.97660	.92180	1.06370	.97590	.90330
.596	26.154	-4.86330	2522.10001	1982.39999	.99910	.91300	.97200	.91650	1.06630	.97800	.88620
	GRADIENT	.00683	.51610	.51665	.00091	.00028	.00219	.00108	.00012	.00034	.00020

(AETR46) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = 15.000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09*)
ARC 11-97-87-09* 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 90.0 FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 275/ 0 RN/L = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.297	.175	-1.87260	4105.0000	3861.2000	1.01440	1.00540	.98790	.99300	1.00390	1.00040	.98760
.297	2.154	-1.84880	4105.0000	3860.5000	1.01530	1.00590	.98820	.99380	1.00410	1.00090	.98720
.297	4.160	-1.83540	4105.0000	3860.5000	1.01550	1.00610	.99950	.99410	1.00430	1.00110	.98810
.297	6.192	-1.83090	4105.0000	3861.2000	1.01620	1.00570	.99990	.99420	1.00430	1.00110	.98820
.297	8.226	-1.83530	4105.0000	3861.2000	1.01510	1.00520	.99940	.99390	1.00430	1.00210	.98850
.297	10.283	-1.83680	4105.0000	3861.2000	1.01380	1.00370	.99880	.99330	1.00360	1.00050	.98850
.297	12.354	-1.83580	4105.0000	3861.2000	1.01280	1.00230	.99840	.99280	1.00440	1.00050	.98840
.297	14.359	-1.83730	4105.0000	3861.2000	1.01020	1.00050	.99790	.99230	1.00620	.99880	.98790
.297	16.470	-1.83370	4105.0000	3860.5000	1.00870	.99820	.99690	.99100	1.00850	.99390	.98710
.297	18.540	-1.84450	4105.0000	3861.2000	1.00500	.99520	.99520	.98950	1.01000	.99030	.98580
.297	20.617	-1.84540	4105.0000	3862.6000	1.00220	.99280	.99280	.98720	1.01050	.98670	.98460
.297	22.655	-1.84010	4105.0000	3861.2000	.99840	.98970	.99120	.98550	1.01100	.98720	.98300
.297	24.695	-1.81990	4105.0000	3860.5000	.98440	.98530	.98850	.98360	1.01260	.98440	.98010
.297	25.698	-1.80940	4104.2999	3861.1000	.98210	.98310	.98720	.98230	1.01320	.98570	.97900
.297	GRADIENT	.00933	.00004	.17522	.00028	.00018	.00040	.00028	.00070	.00005	.00013

RUN NO. 278/ 0 RN/L = 4.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.596	.184	-1.85200	2520.0000	1982.3999	1.02340	1.02340	.98770	.96680	1.01450	1.00170	.94520
.596	2.259	-1.85810	2520.7000	1982.3999	1.02460	1.02460	.99390	.96990	1.01440	.99940	.94420
.597	4.284	-1.84120	2522.1000	1982.3999	1.02520	1.02520	.99680	.97178	1.01440	1.00110	.94470
.596	6.363	-1.83070	2522.1000	1983.2000	1.02570	1.02470	.99920	.97320	1.01370	1.00490	.94660
.595	8.435	-1.83550	2522.1000	1983.2000	1.02450	1.02160	.99710	.97260	1.00778	1.00778	.94690
.599	10.568	-1.82730	2522.1000	1979.6000	1.02190	1.01790	.99710	.97260	1.00550	1.00530	.94820
.598	12.687	-1.82650	2522.1000	1981.0000	1.01150	1.01150	.99650	.97290	1.00590	1.00160	.94200
.597	14.741	-1.82790	2522.1000	1982.3999	1.00830	1.00430	.99490	.96960	1.00370	1.00180	.93630
.597	16.873	-1.87510	2521.3999	1981.0000	1.00990	.99490	.98930	.96490	1.00340	.99350	.93020
.535	18.939	-1.87510	2522.1000	1984.6000	1.02830	.98160	.98310	.95760	1.03690	.98220	.92190
.596	21.118	-1.86360	2522.1000	1983.8999	1.01470	.96950	.97660	.94480	1.04060	.98220	.91330
.597	23.191	-1.85330	2522.7999	1981.7000	1.01120	.95710	.96930	.94480	1.04530	.97210	.89610
.597	25.192	-1.84920	2522.1000	1981.0000	.98640	.94190	.96960	.93560	1.05220	.97310	.88190
.598	25.160	-1.80490	2521.3999	1981.0000	.97680	.93410	.95940	.93250	1.05650	.98360	.88190
.597	GRADIENT	.00264	.51232	.00002	.00112	.00044	.00228	.00119	.00002	.00015	.00012

(AETR77) (02 AUG 76)

TABULATED DATA - 0A16J (ARC 11-97-87-094)
 ARC 11-97-87-094 0A16J ORBITER + PROBES

PARAMETRIC DATA

BETA =
 AIRLON =

BETA =
 AIRLON =

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

MACH	ALPHA	BETA	RUN NO.	274/ 0	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.298	.143	.18390	4105.70001	3860.50000	1.01130	1.00880	99650	99470	99650	99470	1.00400	1.00140	98750
.298	2.148	.20190	4105.70001	3860.50000	1.01160	1.00920	99730	99660	99730	99660	1.00440	1.00010	98710
.297	4.160	.20270	4105.70001	3861.20001	1.01220	1.00930	99780	99600	99780	99600	1.00470	99980	98780
.298	6.183	.20680	4105.70001	3860.50000	1.01290	1.00920	99820	99610	99820	99610	1.00420	99880	98820
.297	9.225	.21270	4105.70001	3861.20001	1.01150	1.00850	99750	99570	99750	99570	1.00390	1.00090	98770
.297	10.265	.21230	4105.70001	3861.20001	1.01060	1.00770	99690	99540	99690	99540	1.00350	1.00020	98930
.297	12.394	.21050	4105.70001	3861.20001	1.00910	1.00580	99620	99480	99620	99480	1.00360	99920	98770
.297	14.350	.22980	4105.70001	3861.20001	1.00700	1.00410	99520	99360	99520	99360	1.00520	99750	98710
.297	16.428	.22870	4105.70001	3861.20001	1.00470	1.00190	99460	99210	99460	99210	1.00770	99450	98540
.297	18.489	.23480	4105.70001	3861.20001	1.00180	99980	99110	99020	99110	99020	1.00880	98700	98460
.297	20.571	.23060	4105.70001	3861.89999	99520	99270	98820	98820	98820	98820	1.01010	98570	98240
.298	22.617	.23240	4105.70001	3860.50000	99100	98960	98620	98620	98620	98620	1.01170	98560	98040
.298	24.655	.24310	4105.70001	3860.50000	98690	98470	98530	98530	98530	98530	1.01250	98470	97930
.298	25.631	.23340	4105.70001	3860.50000	.00022	.00012	.00032	.00032	.00032	.00032	.00017	-.00040	.00005
	GRADIENT	.00468	.00000	.17439	.00022	.00012	.00032	.00032	.00032	.00032	.00017	-.00040	.00005

RUN NO. 273/ 0 RN/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	RUN NO.	273/ 0	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.596	.178	.20810	2520.00000	1981.70000	1.04850	1.03810	98068	97420	98068	97420	1.01420	1.00400	94470
.590	2.230	.22680	2537.70001	1989.50000	1.05330	1.04150	98660	97860	98660	97860	1.01820	1.00050	94650
.592	4.285	.22740	2548.29999	2010.80000	1.05260	1.03960	98880	98130	98880	98130	1.01680	99790	94590
.594	6.363	.23740	2555.39999	2012.20000	1.05440	1.03930	98990	98220	98990	98220	1.01690	1.00070	94750
.595	8.454	.24340	2556.10001	2012.20000	1.04990	1.03600	99970	98330	99970	98330	1.01430	1.00330	94560
.597	10.573	.24040	2556.79999	2010.10001	1.04590	1.03250	99360	98170	99360	98170	1.01340	1.00780	94720
.595	12.685	.23760	2555.39999	2010.60000	1.04080	1.02590	98930	98210	98930	98210	1.01350	1.00330	94780
.594	14.751	.24110	2555.39999	2012.89999	1.03190	1.01870	98480	97920	98480	97920	1.01570	1.00410	94290
.595	16.853	.23530	2555.39999	2010.80000	1.02390	1.00980	97950	97480	97950	97480	1.01930	1.00160	93490
.595	18.953	.23390	2555.39999	2010.80000	1.01390	99930	97360	96430	97360	96430	1.02840	99330	93020
.595	21.088	.22090	2555.10001	2012.20000	99950	98660	96700	95430	98660	95430	1.03640	98010	92370
.595	23.170	.21970	2555.79999	2012.20000	98690	97180	95560	94560	98690	94560	1.04030	96280	91350
.595	25.169	.22990	2556.10001	2010.80000	95990	95930	94930	94930	95990	94930	1.04800	96730	89830
	GRADIENT	.00470	6.89000	7.06823	.00100	.00036	.00200	.00173	.00200	.00173	.00063	-.00149	.00054

(AE7R48X (02 AUG 75.)

PARAMETRIC DATA

BETA = 2.000 ELEVON = 15.000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SPEF = 2692.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 273/ 0 RN/L = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.299	.142	2.26150	4105.70001	3860.50000	1.00780	1.01230	.99480	.99570	1.00360	1.00140	.98720
.297	2.156	2.26480	4105.70001	3861.20000	1.00800	1.01290	.99530	.99750	1.00420	.99850	.98700
.299	4.168	2.27720	4105.70001	3860.50000	1.00840	1.01310	.99590	.99790	1.00450	.99930	.98720
.297	6.204	2.28540	4105.70001	3861.20001	1.00910	1.01260	.99600	.99840	1.00440	.99960	.98760
.299	8.246	2.29330	4105.70001	3860.50000	1.00820	1.01250	.99530	.99780	1.00400	.99970	.98790
.297	10.297	2.30300	4105.70001	3860.50000	1.00680	1.01150	.99470	.99780	1.00320	1.00210	.98780
.299	12.337	2.31030	4105.70001	3860.50000	1.00520	1.00970	.99350	.99680	1.00310	1.00090	.98760
.297	14.497	2.30880	4105.70001	3861.20001	1.00340	1.00740	.99350	.99560	1.00330	.99420	.98750
.299	16.577	2.27160	4106.40002	3861.20001	1.00110	1.00480	.99180	.99560	1.00330	.99420	.98750
.297	18.630	2.24440	4105.70001	3861.20001	.99840	1.00250	.99270	.99450	1.00470	.98580	.98470
.299	20.678	2.23970	4105.70001	3861.20001	.99510	.99920	.98810	.99270	1.00750	.98580	.98270
.297	22.722	2.25080	4105.70001	3861.20001	.99150	.99610	.98630	.99110	1.00750	.98580	.98270
.299	24.726	2.27210	4105.70001	3861.20001	.98700	.99150	.98300	.98830	1.00890	.98390	.97970
.297	26.730	2.28310	4105.70001	3861.20001	.98570	.98030	.98210	.98740	1.01000	.98340	.97970
GRADIENT		.00390	.00000	.00008	.00015	.00020	.00027	.00030	.00022	.00052	.00000

RUN NO. 280/ 0 RN/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.595	.196	2.25620	2554.00000	2010.10001	1.03750	1.05280	.97480	.98360	1.01370	1.00450	.94550
.593	2.244	2.28440	2554.70001	2010.10001	1.03670	1.05200	.97820	.98570	1.01660	.99770	.94590
.594	4.304	2.29860	2554.70001	2012.20000	1.03730	1.05420	.98950	.98890	1.01650	.99640	.94690
.594	6.386	2.30460	2554.70001	2012.20000	1.04010	1.05430	.98270	.98150	1.01570	1.00660	.94580
.595	8.493	2.30350	2555.39999	2009.39999	1.03610	1.05270	.98350	.99090	1.01520	1.00180	.94780
.594	10.606	2.30700	2555.39999	2012.20000	1.03030	1.04710	.98210	.98880	1.01780	1.00470	.94580
.595	12.737	2.28490	2556.10001	2012.20000	1.02350	1.04130	.97850	.99220	1.01280	.99930	.94490
.595	14.827	2.30760	2556.10001	2009.00000	1.01750	1.03320	.97520	.98610	1.01050	1.00520	.94180
.597	16.976	2.29780	2556.10001	2011.50000	1.01010	1.02690	.97110	.98620	1.01420	1.00320	.93670
.595	19.093	2.26910	2556.79999	2010.10001	.99380	1.01450	.96290	.97940	1.01730	.97070	.92030
.597	21.192	2.26910	2556.79999	2010.10001	.99330	1.00200	.96160	.97500	1.02170	.95310	.91710
.597	23.251	2.30110	2556.10001	2015.00000	.95980	.98670	.94550	.96450	1.02700	.96630	.89890
.595	25.216	2.30870	2556.79999	2010.80000	.95320	.97360	.93790	.95970	1.03810	.96630	.88650
.595	26.189	2.31470	2556.10001	2011.50000	.94550	.96560	.93290	.95500	1.04090	.97420	.88650
GRADIENT		.01032	.17023	.51174	.00005	.00034	.00139	.00127	.00968	.00197	.00010

UNCLASSIFIED
DATE 08-01-2010

(AE7R49) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = 15.000
AILRON = .000 BDELAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.297	.178	5.29790	4107.79999	1.00220	1.01740	99230	99930	1.00290	1.00300	98630
.298	.175	5.33200	4107.79999	1.00300	1.01810	99290	1.00020	1.00330	99900	98670
.299	.195	5.34130	4107.79999	1.00350	1.01870	99320	1.00100	1.00330	99990	98730
.297	.235	5.34570	4107.09998	1.00340	1.01800	99310	1.00110	1.00290	1.00090	98600
.297	.278	5.35220	4107.09998	1.00220	1.01750	99270	1.00100	1.00260	1.00140	98640
.292	.351	5.35950	4107.09998	1.00130	1.01640	99250	1.00090	1.00210	1.00160	98570
.299	.419	5.36440	4107.09998	1.00030	1.01540	99170	1.00070	1.00260	1.00110	98700
.299	.496	5.37030	4107.09998	99850	1.01340	99060	1.00010	1.00250	99820	98790
.299	.558	5.37610	4107.09998	99950	1.01100	98920	99910	1.00390	99440	98760
.293	.623	5.38220	4107.09998	99300	1.00800	98680	99630	1.00410	98500	98650
.297	.670	5.38750	4106.40002	98640	1.00490	98190	99510	1.00490	98500	98510
.297	.708	5.39470	4106.40002	98290	1.00130	97990	99270	1.00590	98230	98410
.297	.708	5.39470	4106.40002	98060	99650	97850	99210	1.00630	98160	98280
.298	GRADIENT	.01094	.00000	.00032	.00032	.00022	.00042	.00610	.00002	.00025

RUN NO. 272/ 0 RW/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.555	.213	5.34470	2555.39999	1.01170	1.07410	96460	99360	1.01130	99870	94360
.595	.259	5.36160	2555.39999	1.01520	1.07760	96830	99860	1.01270	99540	94460
.594	.327	5.37330	2555.39999	1.01690	1.07840	96910	1.00110	1.01220	99790	94360
.594	.412	5.37270	2556.10001	1.01730	1.07510	96940	1.00390	1.01200	1.00630	94040
.597	.515	5.37360	2556.10001	1.01340	1.07780	97250	1.00440	1.01020	1.00830	94320
.596	.640	5.35630	2556.79999	1.00940	1.06980	96910	1.00390	1.00590	1.00710	94520
.597	.740	5.35820	2556.79999	1.00450	1.06560	96970	1.00750	1.00860	99940	94360
.594	.826	5.36450	2556.79999	99390	1.05610	95020	1.00310	1.00650	99240	93980
.596	.928	5.38240	2556.10001	98690	1.04860	95530	1.00030	1.01680	99740	93830
.597	.949	5.39970	2556.10001	97550	1.03940	95160	99850	1.01780	99020	94070
.595	.914	5.39520	2556.10001	96020	1.02580	94220	99020	1.01660	98320	93360
.597	.216	5.40140	2556.79999	94680	1.01200	93280	98530	1.02010	94760	92580
.597	.216	5.40140	2557.50000	93350	99920	92300	97710	1.02440	96340	90440
.595	.251	5.40820	2556.79999	92350	99240	91680	97390	1.02660	96810	88450
.596	GRADIENT	.00710	.00000	.00126	.00056	.00109	.00182	.00022	.00019	.00000

RUN NO. 281/ 0 RW/L = 4.19 GRADIENT INTERVAL = -5.00/ 5.00

(AETR55) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BPEF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 24/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.560	.142	-4.9190	2547.6000	2058.6000	1.07120	.99650	1.00120	.96290	.95630	.95080	.95880
.561	2.164	-4.9206	2548.2999	2058.2000	1.07440	.99810	1.00530	.96570	.95650	.94990	.95950
.560	4.200	-4.9260	2549.0000	2059.6000	1.07570	.99830	1.00790	.96770	.95550	.95050	.95960
.561	6.260	-4.9190	2549.7000	2058.8999	1.07520	.99710	1.01120	.96850	.95580	.95010	.95890
.560	8.337	-4.9125	2549.0000	2059.6000	1.07390	.99480	1.01160	.96860	.95520	.95260	.96160
.561	10.431	-4.9027	2549.0000	2058.8999	1.07100	.99120	1.01160	.96730	.95470	.95380	.96300
.560	12.529	-4.8745	2549.0000	2059.6000	1.06540	.98620	1.00860	.96620	.95330	.95290	.96300
.561	14.626	-4.8621	2549.7000	2059.6000	1.05910	.98010	1.00740	.96170	.95180	.95220	.96100
.560	16.707	-4.8530	2549.7000	2060.2999	1.04960	.97090	1.00270	.95730	.94860	.94820	.95780
.560	18.821	-4.8462	2549.0000	2060.2999	1.04030	.96850	.98920	.95160	.94500	.94370	.95160
.560	20.918	-4.8378	2549.0000	2059.6000	1.02940	.94980	.99270	.94460	.94260	.93940	.94280
.561	23.003	-4.8360	2549.7000	2058.8999	1.01480	.93820	.98750	.93950	.93910	.93700	.94040
.561	25.083	-4.8910	2549.7000	2061.7000	1.01110	.92240	.97750	.92790	.93510	.95740	.93460
GRADIENT		-.00187	.34501	.00079	.00111	.00063	.00165	.00118	.00005	-.00007	.00020

RUN NO. 33/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.730	.115	-4.95010	2438.7000	1741.3999	1.13340	.99980	1.00290	.93340	.92250	.91460	.92660
.731	2.170	-4.94910	2439.3999	1708.3000	1.13630	1.00120	1.01020	.94010	.92180	.91470	.92960
.731	4.236	-4.95170	2438.7000	1769.3000	1.13870	1.00850	1.01620	.94340	.92260	.91800	.92950
.730	6.337	-4.94840	2438.7000	1710.0000	1.13850	1.00260	1.02380	.94780	.92100	.91870	.92950
.732	8.452	-4.93230	2439.3999	1708.6000	1.13710	1.00670	1.02610	.95840	.92050	.91810	.93310
.731	10.577	-4.92640	2439.3999	1710.0000	1.13110	.98240	1.02590	.94970	.91970	.91990	.93400
.731	12.697	-4.90740	2439.3999	1709.3000	1.12520	.96650	1.02590	.94740	.91860	.91770	.93300
GRADIENT		-.00039	-.00027	-.50923	.00129	.00085	.00323	.00243	.00002	.00083	.00070

TABULATED DATA - 0416J (ARC 11-97-87-894)

ARC 11-97-87-894 0416J ORBITER

(AETR56) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA =
AILRON =
-2.000 ELEVON =
.000 BOFLAP =
-7.170

RUN NO. 25/ 0 RUN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.560	.090	-1.84650	2547.6000	2058.8999	1.05300	1.01430	.98100	.97150	.95700	.95130	.95160
.561	2.125	-1.84810	2548.2999	2057.5000	1.05540	1.01690	.98470	.97290	.95730	.95350	.95200
.561	4.171	-1.83970	2548.2999	2058.2000	1.05740	1.01800	.98790	.97780	.95680	.95290	.95120
.561	6.233	-1.84630	2548.2999	2057.5000	1.05650	1.01810	.99960	.97940	.95680	.95330	.95340
.561	8.308	-1.84710	2549.0000	2058.2000	1.05510	1.01940	.99360	.97910	.95670	.95390	.95260
.561	10.404	-1.84630	2549.0000	2058.2000	1.05160	1.01080	.99920	.97880	.95590	.95410	.95380
.561	12.514	-1.84140	2549.0000	2058.8999	1.04730	1.00460	.99700	.97600	.95560	.95380	.95340
.560	14.605	-1.79950	2549.0000	2059.6000	1.03900	.99880	.99410	.97300	.95280	.95440	.95990
.562	16.721	-1.86270	2549.0000	2056.7999	1.03280	.99140	.98220	.96500	.95100	.95700	.95740
.560	18.835	-1.86640	2548.2999	2059.2999	1.02090	.98040	.98530	.96350	.94570	.95800	.94920
.561	20.941	-1.85960	2548.2999	2059.8999	1.01020	.96770	.97830	.95910	.94110	.95200	.93810
.559	23.025	-1.84930	2549.0000	2059.6000	.98500	.95440	.96120	.94320	.92980	.94870	.93320
.560	25.092	-1.82490	2549.0000	2059.6000	.98010	.94080	.96180	.94130	.92980	.93940	.92120
.561	26.061	-1.78350	2548.2999	2058.2000	.97460	.93520	.95850	.93880	.92590	.93940	.92120
	GRADIENT	.00167	.17139	-.17103	.00108	.00091	.00169	.00154	-.00005	.00079	-.00080

RUN NO. 338/ 0 RUN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.556	.031	-2.54540	1529.8000	384.32000	1.92050	1.62870	1.27860	1.09890	.98800	.98010	.95840
1.556	2.019	-2.54570	1529.1000	384.15000	1.92140	1.62890	1.28840	1.10410	.98720	.97510	.95340
1.556	4.098	-2.54550	1530.2000	384.68900	1.92150	1.60880	1.29940	1.11260	.98140	.96880	.95470
1.556	6.170	-2.54500	1530.5000	384.50000	1.90760	1.63130	1.30740	1.11950	.98080	.96720	.95030
1.556	8.240	-2.54680	1529.8000	384.32000	1.90370	1.58850	1.30240	1.12230	.97100	.95470	.94690
1.556	10.305	-2.54430	1530.5000	384.32000	1.88330	1.56930	1.30170	1.13090	.95740	.94070	.93070
1.556	12.347	-2.54450	1529.8000	384.32000	1.86210	1.55260	1.29720	1.13420	.94710	.93470	.92470
1.556	14.439	-2.54140	1530.5000	384.50000	1.84430	1.53070	1.28700	1.12850	.93350	.92100	.91020
1.556	16.576	-2.54290	1529.8000	384.32000	1.81780	1.50440	1.27140	1.11750	.92770	.91520	.90430
1.556	18.676	-2.53940	1529.1000	384.15000	1.78700	1.47430	1.27140	1.10970	.92770	.91520	.90430
1.556	20.709	-2.53540	1533.3999	385.21000	1.76380	1.44310	1.27690	1.08690	.91630	.90430	.89300
1.556	22.795	-2.53390	1534.1000	385.39000	1.74290	1.42690	1.26800	1.06690	.90590	.89300	.88100
1.556	24.860	-2.53210	1534.8000	385.57000	1.71140	1.39580	1.25750	1.04590	.89300	.88100	.86900
1.556	26.891	-2.52850	1538.3000	385.46000	1.69900	1.37830	1.24670	1.04340	.88100	.86900	.85700
	GRADIENT	-.00002	.34927	.08978	.00024	-.00491	.00512	.00337	-.00163	-.00352	-.00114

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(AE7855) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.870

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 31/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.996	-0.022	-2.88920	1833.20000	235.66000	2.62150	2.03370	1.48180	1.19910	.47810	.45030	.43980
1.996	1.963	-2.89100	1833.20000	235.66000	2.61180	2.01730	1.49680	1.21570	.47740	.46010	.44130
1.996	4.024	-2.89490	1833.50000	235.57000	2.60930	2.00730	1.50428	1.23588	.48338	.47130	.45860
1.996	6.082	-2.89720	1833.20000	235.66000	2.59080	1.99336	1.50588	1.24570	.48190	.46190	.44630
1.996	8.143	-2.89690	1833.20000	235.66000	2.57440	1.98280	1.50210	1.24800	.47360	.45340	.44510
1.996	10.201	-2.89980	1833.20000	235.66000	2.54940	1.95950	1.49830	1.24960	.46110	.45860	.43550
1.996	12.234	-2.89950	1833.20000	235.66000	2.53690	1.94390	1.52530	1.24650	.44730	.41720	.41720
1.996	14.322	-2.88650	1833.20000	235.66000	2.50400	1.92180	1.54320	1.22940	.43310	.38350	.41650
1.996	16.455	-2.88490	1834.00000	235.75000	2.45440	1.89340	1.53220	1.21020	.42690	.38350	.41940
1.996	18.540	-2.88260	1832.50000	235.57000	2.42810	1.85830	1.52596	1.20880	.42700	.38410	.40670
1.996	20.559	-2.88050	1832.50000	235.57000	2.40730	1.82390	1.51840	1.20490	.41010	.37630	.40640
1.996	22.642	-2.87670	1832.50000	235.57000	2.36760	1.80300	1.51610	1.21470	.39510	.36850	.38910
1.996	24.702	-2.87470	1832.50000	235.65000	2.30320	1.74440	1.50580	1.20240	.39280	.35370	.36650
1.996	25.727	-2.87310	1832.50000	235.57000	2.26430	1.72660	1.49740	1.18246	.38610	.36220	.35450
	GRADIENT	-0.00012	-0.17413	-0.02239	-0.00300	-0.00652	-0.00552	-0.00908	.00130	.00519	-0.0282

(AETR537) (22 AUG 75)

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
AIRLON = .008 BDFAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0080 IN. Y0
BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 26/ 0 RV/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.550	.085	.19720	2546.89999	2058.89998	1.03880	1.02710	.98310	.97950	.95710	.95210	.96130
.550	2.122	.20750	2543.89999	2058.20701	1.04060	1.02990	.98750	.95190	.95730	.95260	.96070
.551	4.171	.20970	2547.60001	2058.20001	1.04320	1.03090	.98440	.98370	.95709	.95270	.96170
.550	6.231	.20960	2547.60001	2058.89999	1.04290	1.02880	.98190	.98330	.95630	.95290	.96220
.551	8.311	.21690	2547.60001	2058.20001	1.04090	1.02820	.98570	.98570	.95670	.95330	.96220
.550	10.397	.21690	2547.60001	2059.60001	1.03780	1.02820	.98570	.98570	.95630	.95580	.96140
.550	12.478	.21480	2548.29399	2058.60001	1.03370	1.01850	.98220	.98350	.95510	.95430	.96000
.551	14.583	.21150	2548.29399	2058.89999	1.02530	1.01180	.98570	.98120	.95410	.95460	.95680
.551	16.688	.22740	2543.00000	2058.89999	1.01810	1.00410	.98220	.98240	.95240	.95240	.95300
.553	18.794	.22060	2549.00000	2061.00000	1.00630	.99310	.97520	.97240	.95750	.95750	.94680
.551	20.901	.21940	2549.00000	2058.89999	.95600	.98290	.97160	.95780	.95300	.95300	.94680
.559	22.986	.20740	2549.00000	2058.89999	.98160	.96860	.96140	.95300	.95300	.95300	.94680
.550	25.057	.21320	2549.00000	2059.60001	.96720	.95550	.95310	.95230	.92310	.92310	.92680
.561	26.046	.16600	2549.00000	2058.89999	.96200	.94830	.94520	.94660	.92310	.92310	.92680
	GRADIENT	.00306	.17143	-.17114	.00108	.00093	.00161	.00144	-.00022	.00015	.00010

RUN NO. 342/ 0 RV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.996	-.023	-.84120	1834.73000	235.84000	2.44220	2.17510	1.35870	1.30190	.47700	.46570	.44470
1.996	1.955	-.84220	1835.39999	235.94000	2.43970	2.16450	1.38170	1.31570	.46660	.45560	.45210
1.996	4.020	-.84280	1835.39999	235.94000	2.44030	2.14640	1.39580	1.31950	.46440	.45460	.45660
1.996	6.138	-.84260	1836.10001	236.03000	2.41960	2.12790	1.40220	1.32430	.46820	.45690	.45050
1.996	8.138	-.84160	1836.10001	236.03000	2.40320	2.10880	1.40380	1.32870	.47340	.44190	.44790
1.996	10.197	-.84270	1835.39999	235.94000	2.36620	2.09780	1.41180	1.33150	.45760	.42080	.43730
1.996	12.231	-.84080	1836.10001	236.03000	2.36850	2.07320	1.40600	1.32940	.45040	.41810	.43240
1.996	14.321	-.83910	1835.80000	235.12000	2.34930	2.05050	1.41000	1.32920	.45420	.39220	.42370
1.996	16.459	-.83750	1835.39999	235.94000	2.31160	2.02300	1.41100	1.32920	.42530	.39400	.42690
1.996	18.545	-.83530	1835.10001	236.03000	2.27710	2.00280	1.39740	1.30640	.42360	.37620	.40940
1.996	20.646	-.83330	1837.50000	235.21000	2.19300	1.94140	1.37940	1.31500	.42360	.35860	.37180
1.996	22.745	-.83270	1838.99999	236.39000	2.12960	1.88850	1.35650	1.30190	.42360	.35860	.37180
1.996	24.771	-.82420	1837.50000	236.21000	2.09850	1.85870	1.36440	1.30140	.36900	.32180	.33750
1.996	GRADIENT	-.00040	.17191	.02456	-.00046	-.00711	.00695	.00434	.00430	-.00276	.00239

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(AE7RSB) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -.7170

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.561	.100	2.25050	2546.89999	2057.50000	1.02760	1.04070	.97830	.98470	.95780	.95360	.96170
.561	2.133	2.28040	2547.60001	2056.79999	1.02770	1.04390	.98110	.98990	.93700	.93380	.95030
.561	4.185	2.29430	2547.60001	2058.20001	1.02880	1.04410	.98270	.99210	.95510	.95280	.95110
	GRADIENT	.01059	.17105	.17210	.00029	.00083	.00108	.00181	-.00042	-.00020	-.00015

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.996	-.027	1.22520	1838.20000	236.30000	2.26910	2.30800	1.27450	1.39010	.47490	.48160	.42990
.996	1.964	1.23900	1837.50000	235.21000	2.25640	2.29780	1.28470	1.40630	.46550	.46280	.43050
.996	4.026	1.22270	1838.20000	236.30000	2.25570	2.27810	1.29100	1.41260	.47190	.44180	.43210
.996	5.083	1.22200	1837.50000	235.21000	2.25600	2.25930	1.30130	1.42210	.47900	.43950	.44600
.996	9.141	1.23130	1838.20000	236.30000	2.25680	2.24330	1.30390	1.41940	.47540	.43190	.44760
.996	10.202	1.26820	1837.50000	236.21000	2.23690	2.22340	1.29760	1.42890	.45500	.46700	.42650
.996	12.239	1.26760	1838.20000	236.30000	2.21200	2.20600	1.29190	1.43060	.44310	.40190	.41990
.996	14.324	1.26700	1839.20000	236.21000	2.17750	2.19060	1.28110	1.42960	.42430	.37850	.40780
.996	16.460	1.26700	1839.20000	236.30000	2.14420	2.16310	1.27760	1.41930	.41590	.37390	.41510
.996	18.545	1.27830	1837.50000	235.21000	2.11000	2.13990	1.27580	1.41840	.41950	.37600	.38500
.996	20.561	1.28240	1838.20000	236.30000	2.09560	2.10650	1.26870	1.41640	.40210	.35490	.37440
.996	22.641	1.27670	1837.50000	236.21000	2.03740	2.07850	1.25180	1.43110	.39580	.33870	.34770
.996	24.702	1.27740	1837.50000	236.21000	1.97590	2.04160	1.22870	1.42590	.38360	.32960	.34460
.996	25.728	1.28960	1837.50000	236.21000	1.93480	2.02290	1.21970	1.41470	.38430	.32730	.32430
	GRADIENT	-.00066	.00200	.00026	-.00332	-.00739	.00407	.00554	-.00072	-.00992	.09057

(AE7R59) (02 AUG 75)

PARAMETRIC DATA

BETA =
AIRLON =

5.000 ELEVON =
.000 BOFLAP =

BETA =
AIRLON =

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8800 IN. XG
LREF = 474.8000 IN. YMRP = .0000 IN. YG
BREF = 935.6800 IN. ZMRP = 379.0000 IN. ZG
SCALE = .0300

RUN NO. 51/ C RW/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
.900	.076	5.37850	2127.50000	1259.00000	1.07030	1.20850	93280	1.00940	.85990	.85230	.87410
.901	2.171	5.39730	2125.79999	1256.60001	1.07500	1.21250	95020	1.01970	.86890	.86210	.87890
.899	4.282	5.40810	2126.79999	1258.80000	1.07510	1.21200	95980	1.02770	.87230	.86550	.87970
.900	6.405	5.42510	2127.50000	1257.30000	1.07900	1.21210	96990	1.04090	.87250	.86580	.88630
.899	8.525	5.43360	2127.50000	1258.70000	1.07180	1.20790	97710	1.05220	.87730	.87220	.88270
.899	10.664	5.44090	2127.50000	1258.70000	1.06560	1.19980	97810	1.05340	.88380	.87930	.87550
.897	12.794	5.44360	2127.50000	1257.60001	1.05370	1.18380	97360	1.05300	.88930	.88510	.88310
.898	14.939	5.44360	2127.50000	1257.60001	1.03960	1.17410	97140	1.05800	.89350	.88670	.88380
.900	17.079	5.44360	2127.50000	1256.60001	1.02110	1.15840	96270	1.05520	.89670	.88730	.88430
.896	19.233	5.45040	2127.50000	1263.80000	.99780	1.13930	94830	1.04540	.89510	.88470	.88170
.896	21.398	5.45550	2126.79999	1263.10001	.97120	1.11470	94080	1.04270	.89410	.88370	.88070
.898	23.446	5.45730	2127.50000	1260.89999	.95050	1.09200	92000	1.03010	.89300	.88260	.87960
.895	25.472	5.45320	2127.50000	1263.80000	.91580	1.06060	89970	1.01730	.89200	.88160	.87860
.897	26.414	5.45210	2127.50000	1262.39999	.89250	1.04880	88770	1.01180	.89090	.88050	.87750
GRADIENT		.00703	-.16523	.19122	.00114	.00083	.00523	.00530	.00857	.08314	.00133

RUN NO. 539/ 0 RW/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.750	-.075	4.79320	1633.80000	306.66000	1.83970	2.23680	1.12140	1.44880	.52490	.53470	.49080
1.750	1.917	4.78850	1630.30000	306.00000	1.84310	2.23290	1.13310	1.46190	.52570	.51590	.49160
1.750	3.986	4.78680	1630.30000	306.00000	1.82910	2.22830	1.14640	1.45550	.52990	.50450	.49750
1.750	6.046	4.78350	1632.39999	306.40000	1.81170	2.21020	1.14840	1.46450	.52920	.49170	.50730
1.750	8.111	4.79560	1633.80000	306.66000	1.80410	2.19850	1.14580	1.47630	.53490	.49910	.52580
1.750	10.172	4.78750	1626.60001	307.19000	1.79090	2.17590	1.13590	1.48020	.53920	.56230	.50350
1.750	12.211	4.79080	1637.30000	307.33000	1.76520	2.15020	1.13280	1.48450	.51530	.46340	.49350
1.750	14.336	4.79670	1637.30000	307.33000	1.70410	2.10590	1.10660	1.47790	.49540	.49540	.45730
1.750	16.436	4.80280	1637.30000	307.33000	1.67240	2.06660	1.07980	1.47090	.49380	.47480	.44600
1.750	18.525	4.80940	1639.00000	307.45000	1.63480	2.04490	1.06490	1.46500	.48710	.42580	.42580
1.750	20.545	4.81390	1640.89999	307.99000	1.60980	2.01120	1.04930	1.47630	.46280	.41860	.42260
1.750	22.630	4.81390	1642.30000	308.25000	1.57100	1.99130	1.02030	1.47660	.43380	.38930	.43710
1.750	24.689	4.81670	1642.30000	309.25000	1.53730	1.96990	.99830	1.47610	.42360	.39160	.39280
1.750	25.715	4.81670	1642.30000	309.25000	1.50230	1.94259	.96510	.00162	.00124	-.00742	.00165
GRADIENT		-.00054	-.65548	-.16151	-.00239	-.00259	.00510	.00162	.00124	-.00742	.00165

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(AE7R59) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = 5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.178

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
1.996	-0.045	4.27133	1839.20000	236.30000	2.03580	2.53110	1.4780	1.54060	4.5840	4.3840	4.2940
1.995	1.960	4.26700	1835.80000	236.12000	2.04000	2.54120	1.16020	1.54850	4.6200	4.5220	4.4180
1.994	4.016	4.25280	1837.50000	235.21000	2.02960	2.52030	1.16500	1.54940	4.6000	4.2100	4.1580
1.993	6.083	4.23910	1837.50000	235.21000	2.02530	2.49890	1.17160	1.55610	4.5900	4.0880	4.2230
1.992	8.143	4.22530	1836.80000	235.12000	2.01310	2.47850	1.17070	1.56940	4.6050	4.0570	4.2150
1.991	10.189	4.21160	1837.50000	235.21000	1.99450	2.46310	1.16200	1.57330	4.5100	3.9530	4.1200
1.990	12.240	4.19790	1837.50000	235.21000	1.97210	2.43770	1.15550	1.56810	4.3150	3.9210	3.9330
1.989	14.321	4.18420	1837.50000	235.21000	1.94940	2.41750	1.15860	1.57410	4.3050	3.8020	4.0570
1.988	16.436	4.17050	1836.80000	235.12000	1.91840	2.37810	1.15030	1.57240	4.2320	3.7440	3.8270
1.987	18.540	4.15680	1836.80000	235.12000	1.89340	2.35580	1.12370	1.56950	4.1160	3.6360	3.9160
1.986	20.553	4.14310	1837.50000	235.21000	1.86270	2.32250	1.10530	1.56810	4.0500	3.4120	3.5920
1.985	22.636	4.12940	1836.80000	235.12000	1.81330	2.29420	1.09750	1.57920	3.9840	3.4950	3.5230
1.984	24.588	4.11570	1836.80000	235.12000	1.75230	2.24550	1.08240	1.57520	3.7810	3.2190	3.3230
1.983	26.724	4.10200	1840.50000	235.57000	1.73230	2.21540	1.03980	1.57840	3.7180	3.1190	3.2390
GRADIENT											

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	PS1/P	PS2/P	PS3/P	PS4/P	PS5/P	PS6/P	PS7/P
2.249	-0.069	4.26120	2030.60001	175.84000	2.31860	2.92960	1.33830	1.67720	4.3020	4.0090	3.8070
2.248	1.952	4.25800	2027.00000	175.53000	2.31350	2.90750	1.24850	1.67910	4.2880	3.7940	3.7230
2.247	4.008	4.25510	2027.00000	175.59000	2.29060	2.90230	1.25540	1.69270	4.2410	3.6750	3.7460
2.246	6.059	4.25210	2033.39999	175.08000	2.28220	2.86930	1.26010	1.70820	4.2430	3.6290	3.5790
2.245	8.118	4.24930	2035.50000	176.27000	2.26980	2.83100	1.25360	1.71040	4.0130	3.3590	3.5510
2.244	10.169	4.24630	2035.50000	176.33000	2.24300	2.77790	1.24410	1.72790	3.6700	3.0360	3.3180
2.243	12.208	4.24370	2036.20000	176.33000	2.21750	2.74780	1.23910	1.72860	3.5690	2.9550	3.1650
2.242	14.269	4.24100	2036.20000	176.33000	2.19130	2.72160	1.23180	1.72700	3.5420	2.9180	3.1390
2.241	16.395	4.23840	2035.89999	176.39000	2.16330	2.68350	1.20570	1.73310	3.5020	2.8780	3.0180
2.240	18.462	4.23570	2035.89999	176.39000	2.04400	2.63120	1.15550	1.72310	3.3950	2.7710	2.7910
2.239	20.553	4.23300	2035.89999	176.39000	2.00980	2.52410	1.08260	1.70880	3.3650	2.6420	2.6010
2.238	22.636	4.23030	2036.69999	176.39000	1.99780	2.52410	1.07480	1.70790	3.3510	2.6250	2.6150
2.237	24.588	4.22760	2036.69999	176.39000	1.97980	2.52410	1.0419	1.70381	3.3510	2.6250	2.6150
GRADIENT											

GRADIENT INTERVAL = -5.00/ 5.00

(BETR01) (02 AUG 75)

PARAMETRIC DATA

BETA = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09%)
ARC 11-97-87-09% 0A161 ORBITER - WING + RAKES

REFERENCE DATA

SPEC = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
SPCF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 2/ 0 RW/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.535	.069	.16200	2580.10001	1.00050	1.00040	.99970	1.00050	1.00030	1.00010	.74270	504.51000
.535	.069	.20740	2580.10001	1.00020	1.00030	1.00010	1.00020	1.00050	1.00010	.74640	503.35000
.535	.064	.21740	2580.10001	1.00030	1.00030	1.00030	1.00020	1.00030	1.00030	.74520	502.77000
.535	.064	.20830	2580.10001	1.00030	1.00030	1.00030	1.00030	1.00020	1.00010	.73840	503.35000
.536	.12.146	.23170	2580.79999	1.00030	1.00030	.99960	.99950	1.00000	.99970	.73040	505.11000
.536	.16.684	.23150	2580.79999	.99370	.99990	.99960	.99780	.99840	.99890	.72380	503.94000
.537	.20.839	.24450	2580.79999	.99770	.99230	.98890	.99210	.99590	.99590	.71490	506.69000
	.24.766	.01149	.00002	.00008	.00003	.00010	.00008	.00005	.00000	.00004	.29346

RUN NO. 3/ 0 RW/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.537	.057	.16940	2334.00000	1.00000	.99990	1.00000	1.00010	1.00010	.99990	.66490	574.04000
.537	.057	.20740	2334.00000	.99990	1.00000	1.00020	1.00030	1.00030	1.00000	.66920	573.65000
.538	.073	.21260	2334.70001	1.00020	1.00030	1.00030	1.00030	1.00030	1.00020	.66880	575.14000
.538	.12.376	.20960	2334.70001	1.00000	1.00020	1.00040	1.00030	1.00050	.99980	.66110	574.60000
.538	.16.532	.23740	2334.70001	1.00030	1.00020	.99980	1.00010	1.00060	.99880	.65160	575.74000
.537	.20.705	.22920	2335.39999	.99790	.99820	.93740	.93800	.93410	.93440	.64170	574.09000
.537	.24.854	.25760	2335.39999	.98490	.98670	.98670	.93160	.93410	.99440	.63580	574.09000
		.00982	.00000	.00003	.00003	.00005	.00005	.00005	.00003	.06109	.46642

RUN NO. 4/ 0 RW/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.793	.041	.16450	2280.29999	1.00020	1.00030	1.00000	1.00040	1.00000	.99980	.58530	645.82000
.793	.041	.20160	2197.50000	1.00020	1.00026	.99990	1.00020	.99980	.99980	.58590	645.17500
.793	.083	.21090	2198.89999	.99980	1.00020	1.00030	1.00010	1.00000	.99980	.58840	644.26000
.797	.12.430	.21030	2198.20001	1.00050	1.00030	1.00020	.99999	1.00020	1.00020	.59220	643.27000
.797	.16.584	.23740	2198.89999	.99870	.99980	.99960	.99940	.99970	.99960	.57140	643.80000
.795	.20.778	.24530	2198.89999	.99720	.99810	.99720	.99800	.99890	.99930	.56200	641.37000
.795	.24.949	.25810	2198.20001	.98330	.98730	.98550	.99010	.99350	.99410	.54900	642.36000
		.01924	.00000	.00003	.00003	.00003	.00005	.00005	.00000	.06141	.16364

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OF POOR QUALITY

PARAMETRIC DATA

BETA = .000 BDFEAP = -7.170

	T	P13/P4	P14/P1	P15/P1
1	0	.99970	.99990	1.00010
2	0	1.00010	.99970	.99990
3	0	.99960	1.00000	.99970
4	0	1.00050	1.00020	1.00030
5	0	.99950	.99950	.99970
6	0	.99720	.99740	.99810
7	0	.99570	.99040	.99350
8	3	.00010	-.00005	-.00005

T	P13/P1	P14/P1	P15/P1
0	1.00020	1.00040	.99970
0	.99990	.99970	.99950
0	1.00020	.99970	1.00000
0	1.00035	.99990	1.00040
0	.99950	.99920	.99970
0	.93740	.98750	.99650
0	.96610	.98050	.99390
2	-.00007	-.00017	-.00005

T	PT34PT	PT44PT	PT54PT
0	.00025	.00022	.00035
0	.00630	.00630	.00650
0	.00590	.00630	.00760
0	.00300	.00360	.00910
0	.00930	.00980	.00910
0	.00930	.00930	.00900
0	.00960	.00960	.00900
0	.00930	.00960	.00950
0	.00930	.00930	.00910

TABULATED DATA - 04153 (ARC 11-97-87-09*)

ARC 11-97-87-09* 04153 ORBITER - WING + RAKES.

(BETROL) (02 AUG 75)

PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LPEF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6900 IN. ZMRP = 375.0080 IN. Z0
SCALE = .0370

BETA = .000 BDFLAP = -7.170

REFERENCE DATA

RUN NO. 8/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.196	.009	16026	.99350	.99340	.99270	.98300	.98320	.98350	.27680	833.40000
1.200	4.038	19350	.99380	.99360	.99300	.99290	.99350	.99380	.28280	834.03000
1.199	8.158	20480	.99398	.99380	.99300	.99300	.99350	.99380	.27970	834.21000
1.195	12.545	20100	.99420	.99380	.99320	.99280	.99340	.99370	.26530	833.38000
1.195	16.783	22220	.99380	.99350	.99280	.99270	.99240	.99300	.25780	833.00000
1.191	21.027	22420	.99010	.99110	.98980	.99020	.99020	.99050	.25130	832.00000
1.191	25.265	22070	.98240	.98590	.98220	.98530	.98680	.98640	.23640	831.76000
1.190	GRADIENT	00829	.00005	.00005	.00067	-.00002	.00010	.00010	.00134	.15637

RUN NO. 9/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.298	-.004	16350	.99370	.98220	.98050	.97890	.97950	.98210	.22690	859.76000
1.298	4.024	20220	.99340	.98200	.98070	.98000	.97810	.98030	.23470	859.76000
1.297	8.151	18520	.99350	.98190	.98110	.98050	.97950	.98100	.23110	859.87800
1.294	12.538	20390	.98320	.98180	.98090	.98000	.97920	.97900	.21900	859.17000
1.294	16.776	22650	.98190	.98120	.98150	.97730	.97750	.97950	.20880	859.40000
1.293	21.026	22860	.97820	.97740	.97820	.97590	.97620	.97820	.20070	859.18000
1.299	25.269	22700	.97090	.97190	.97120	.97110	.97050	.97300	.19840	859.06000
	GRADIENT	00961	-.00007	-.00005	.00005	.00027	-.00042	-.00042	.00144	.06000

RUN NO. 10/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.404	-.022	14420	.96220	.95740	.95740	.94750	.95230	.95830	.18910	879.17000
1.402	4.011	20200	.95450	.95000	.94950	.95340	.95400	.95910	.19420	879.15000
1.401	8.144	21430	.95500	.95180	.95070	.95450	.95430	.95900	.19080	879.45000
1.400	12.523	21020	.95450	.95010	.95000	.95280	.95270	.95900	.17900	879.42000
1.397	16.769	22420	.95180	.95090	.95090	.95090	.95470	.95890	.16550	879.37000
1.396	21.013	23100	.95560	.95400	.95110	.94730	.95250	.95630	.16330	879.35800
1.394	25.265	20480	.95020	.94870	.94730	.94100	.94480	.94940	.16160	879.29000
	GRADIENT	01433	.00060	.00064	.00077	.00146	.00042	.00020	.00126	-.00496

(BETR02) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09A)

ARC 11-97-87-09A 0A161 ORBITER - KING

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8300 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 282/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
596	.19320	2520.00000	.74290	.74240	.74300	.74260	.74290	.74340	.74290	498.92000
595	.25220	2513.23399	.74690	.74720	.74600	.74670	.74670	.74790	.74590	492.91000
595	.24320	2520.70001	.74650	.74680	.74670	.74650	.74640	.74650	.74640	492.93000
596	.23950	2520.00000	.74150	.74010	.74080	.74090	.73970	.74060	.74380	492.92000
596	.26350	2520.00000	.73340	.73260	.73460	.73340	.73300	.73300	.73390	492.92000
596	.26990	2520.00000	.72530	.72510	.72520	.72540	.72440	.72540	.72490	492.92000
597	.38760	2520.00000	.71720	.71730	.71730	.71650	.71680	.71580	.71760	493.50000
	.01295	-1.1429	.00100	.00120	.00075	.00105	.00095	.00112	.00100	-0.00249

RUN NO. 283/ 0 RN/L = 4.31 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
597	.16540	2055.23399	.41000	.41080	.40920	.41071	.41090	.40870	.40650	749.78000
597	.23390	2055.20001	.42620	.42470	.42490	.42363	.42140	.42370	.42320	750.43000
597	.24750	2054.50000	.42160	.42140	.42080	.41950	.41990	.42090	.42050	749.60000
597	.24380	2055.20001	.41370	.41460	.41600	.41450	.41450	.41690	.41560	750.06000
597	.26750	2055.89399	.41390	.41360	.41370	.41450	.41440	.41560	.41400	750.69000
597	.26930	2055.89399	.41340	.41390	.41310	.41400	.41270	.41330	.41210	752.00000
597	.27670	2053.79399	.41120	.41120	.41290	.41240	.41310	.41430	.41320	748.40000
	.01121	-1.1247	.00399	.00342	.00387	.00318	.00259	.00370	.00362	.16016

RUN NO. 284/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1035	.18000	2012.89399	.33320	.33170	.33230	.33270	.33270	.33330	.33290	796.07000
1035	.24950	2012.89399	.33350	.33040	.33030	.33073	.34010	.33970	.34050	796.91000
1035	.24700	2015.00000	.33930	.33870	.33940	.33883	.33930	.33950	.33900	798.42000
1037	.24530	2012.89399	.32700	.32710	.32700	.32730	.32680	.32650	.32650	797.19000
1036	.25870	2012.89399	.32390	.32380	.32330	.32250	.32290	.32250	.32250	797.47000
1036	.27180	2013.60001	.31680	.31670	.31650	.31620	.31660	.31640	.31670	797.60000
1037	.27680	2012.89399	.30470	.30450	.30480	.30390	.30450	.30460	.30410	798.30000
	.01265	.00000	.00157	.00214	.00197	.00197	.00182	.00157	.00187	.20635

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - WING

(BE7R02) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 BOFLAP = -7.170

REFERENCE DATA

SPEC = 2693.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 285/ 0 RV/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OUTPSF)
1.198	.010	.19810	2017.10001	.27720	.27820	.27760	.27740	.27820	.27770	.27760	837.69000
1.197	2.054	.22700	2017.10001	.28300	.28300	.28260	.28250	.28280	.28360	.28360	837.69000
1.198	4.089	.23410	2017.10001	.28500	.28640	.28610	.28590	.28560	.28620	.28570	837.69000
1.199	6.143	.24460	2016.39999	.28350	.28410	.28370	.28420	.28310	.28420	.28350	837.71000
1.198	8.223	.24900	2017.10001	.28230	.28150	.28240	.28240	.28210	.28200	.28190	837.69000
1.197	10.311	.24530	2015.50000	.27550	.27490	.27510	.27500	.27550	.27520	.27460	837.69000
1.196	12.401	.25060	2017.90000	.26910	.26970	.27010	.27040	.26920	.26990	.26960	837.69000
1.197	14.515	.26230	2017.10001	.26700	.26680	.26740	.26590	.26550	.26620	.26580	837.69000
1.196	16.538	.26720	2017.80000	.26190	.26240	.26360	.26390	.26550	.26380	.26420	837.69000
1.195	18.751	.27130	2017.10001	.25840	.25990	.25940	.25830	.25970	.25780	.25810	837.69000
1.196	20.997	.26840	2017.80000	.25590	.25540	.25610	.25630	.25510	.25540	.25600	837.69000
1.195	22.999	.26430	2017.80000	.24960	.25050	.25000	.24900	.24970	.25010	.25030	837.69000
1.196	25.116	.26270	2017.10001	.24570	.24640	.24550	.24550	.24500	.24460	.24550	837.69000
1.197	26.169	.25800	2017.10001	.24230	.24210	.24130	.24220	.24110	.24010	.24150	837.69000
	GRADIENT	.00883	.00000	.00191	.00201	.00208	.00203	.00181	.00208	.00198	- .00007

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(BE7R03) (02 AUG 76)

REFERENCE DATA

SREF = 2692.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 ATLRON =

-5.0000 ELEVON =
 .0000 SDFLAP =

PARAMETRIC DATA

RUN NO. 17/ 0 RNL = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
1.199	.099	-4.97040	2010.80000	.99300	.99290	.99270	.99260	.99100	.99110	.99080	835.49000
1.201	2.181	-4.97620	2009.60001	.99400	.99370	.99350	.99340	.99220	.99240	.99080	835.15000
1.201	4.275	-4.98520	2010.10001	.99430	.99400	.99380	.99370	.99260	.99280	.99110	835.90000
1.199	6.476	-4.99870	2008.60001	.99480	.99450	.99430	.99420	.99310	.99330	.99170	834.53000
1.197	8.546	-4.99490	2010.10001	.99500	.99450	.99430	.99420	.99300	.99320	.99160	833.18000
1.194	10.701	-4.99170	2009.60001	.99530	.99480	.99460	.99450	.99340	.99360	.99200	833.15000
1.195	12.857	-4.98240	2009.39999	.99500	.99450	.99430	.99420	.99310	.99330	.99170	833.18000
1.194	15.033	-4.95320	2008.60001	.99430	.99400	.99380	.99370	.99260	.99280	.99110	835.95000
1.196	17.194	-4.95950	2009.39999	.99370	.99350	.99330	.99320	.99210	.99230	.99070	833.78000
1.196	19.364	-4.98870	2008.60001	.99260	.99260	.99260	.99260	.99150	.99170	.98550	832.93000
1.193	21.517	-4.97880	2009.39999	.99190	.99170	.99150	.99140	.99030	.99050	.98430	832.93000
1.192	23.659	-4.97210	2008.60001	.98960	.99110	.99110	.99110	.98820	.98830	.98210	832.93000
1.192	25.774	-4.94480	2010.10001	.98340	.98780	.98780	.98780	.97750	.97750	.97130	832.93000
	GRADIENT	.00101	-1.1657	.00031	.00029	.00026	.00026	.00038	.00026	.00050	.09349

RUN NO. 305/ 0 RNL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
1.556	.025	-5.61928	1581.50000	.99330	.99320	.99270	.99220	.98610	.98320	.98170	672.65000
1.555	2.023	-5.61890	1592.89999	.99310	.99300	.99280	.99250	.98630	.98310	.98170	673.45000
1.555	4.108	-5.61630	1580.70000	.99390	.99350	.99300	.99190	.98790	.98540	.98400	672.58000
1.556	6.184	-5.61670	1580.70000	.99430	.99350	.99350	.99260	.98710	.98530	.98420	672.58000
1.556	8.265	-5.61710	1591.50000	.99420	.99370	.99390	.99300	.98830	.98460	.98420	672.65000
1.555	10.334	-5.61790	1578.60001	.99400	.99310	.99260	.99170	.98660	.98700	.98110	671.65000
1.555	12.388	-5.61930	1579.30000	.99420	.99390	.99300	.99240	.98840	.98610	.98170	671.65000
1.555	14.485	-5.61980	1579.30000	.99420	.99390	.99300	.99240	.98840	.98610	.98170	671.65000
1.555	16.634	-5.61910	1579.30000	.99410	.99320	.99290	.99150	.98500	.98350	.97890	672.26000
1.555	18.733	-5.62190	1580.00000	.99330	.99310	.99290	.99190	.98620	.98350	.97890	671.65000
1.555	20.770	-5.61930	1579.30000	.99320	.99360	.99250	.99150	.98650	.98330	.97890	671.65000
1.555	22.930	-5.61930	1579.30000	.99310	.99270	.99230	.99140	.98610	.98420	.97890	671.65000
1.555	25.951	-5.61220	1579.30000	.99240	.99240	.99190	.99100	.98490	.98490	.97890	671.65000
	GRADIENT	.00071	-2.2926	.00015	-.00016	.00105	.00056	.00044	.00054	-.00008	-.07631

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1078.6900 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0800 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA =
 AILRON =
 ELEVON =
 BOFLAP =

RUN NO. 306/ 0 RML = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.750	-0.099	-5.44620	1850.10001	.88080	.87160	.85830	.77930	.79390	.81040	.09870	664.39000
1.750	1.902	-5.44890	1651.57000	.88280	.87120	.84830	.78330	.79790	.81220	.10000	654.96000
1.750	3.975	-5.44940	1650.10001	.88480	.87320	.85150	.78650	.80100	.81530	.09970	664.39000
1.750	6.044	-5.44930	1649.39999	.88430	.87550	.85490	.79050	.80350	.81740	.09970	664.39000
1.750	8.116	-5.44750	1650.80000	.88630	.87980	.86190	.78360	.80390	.81830	.09810	654.68000
1.750	10.183	-5.44560	1650.10001	.88730	.88170	.86510	.78790	.80710	.81930	.09810	664.39000
1.750	12.228	-5.44500	1650.80000	.88700	.88160	.86660	.79610	.80870	.82000	.09700	654.68000
1.750	14.316	-5.44490	1650.10001	.88720	.88150	.86850	.79230	.80600	.81860	.09320	664.39000
1.750	16.464	-5.44430	1649.39999	.88560	.88020	.86890	.78540	.80430	.81620	.09350	664.39000
1.750	18.553	-5.44380	1650.10001	.88310	.87760	.86630	.77900	.79630	.80930	.09430	654.39000
1.750	20.586	-5.44340	1650.10001	.87590	.86910	.86440	.77500	.79200	.80460	.09360	664.39000
1.750	22.735	-5.44320	1649.39999	.87430	.86770	.86350	.77590	.79050	.80310	.08120	664.39000
1.750	25.764	-5.43500	1649.39999	.87430	.86770	.86350	.77590	.79050	.80310	.08120	664.39000
1.750	GRADIENT	-0.00079	-0.00408	.00096	.00040	.00030	.00170	.00174	.00120	.00012	-0.08166

RUN NO. 315/ 0 RML = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.936	-0.026	-5.97310	1841.70000	.79570	.78200	.74920	.64950	.67320	.69700	.05540	660.44000
1.936	1.964	-5.96960	1843.10001	.79800	.78470	.74500	.65100	.67940	.70110	.06340	660.44000
1.936	4.034	-5.97000	1843.10001	.80040	.78770	.75090	.65740	.68290	.70390	.06370	660.44000
1.936	6.098	-5.97220	1841.70000	.80040	.79180	.75480	.66100	.68540	.70490	.06360	660.44000
1.936	8.161	-5.97120	1841.70000	.80150	.79250	.75740	.66400	.68750	.70850	.06270	660.44000
1.936	10.222	-5.96910	1841.70000	.80210	.79410	.77170	.67170	.69170	.70840	.05120	660.44000
1.936	12.262	-5.96920	1841.70000	.80150	.79260	.77430	.67230	.69230	.71040	.05930	660.44000
1.936	14.346	-5.96630	1841.70000	.80140	.79100	.77420	.67020	.69330	.70900	.05930	660.44000
1.936	16.423	-5.96500	1841.70000	.79790	.78820	.77430	.67420	.69830	.71320	.05660	660.44000
1.936	18.572	-5.96530	1841.70000	.79530	.78570	.77430	.67430	.69770	.71320	.05620	660.44000
1.936	20.594	-5.96190	1841.70000	.79490	.78540	.77380	.67410	.69800	.71350	.05340	660.44000
1.936	22.673	-5.96030	1841.70000	.79500	.78510	.77400	.67310	.69700	.71200	.05120	660.44000
1.936	24.737	-5.95610	1841.70000	.79200	.78210	.77310	.67310	.69600	.71150	.05360	660.44000
1.936	26.762	-5.95210	1841.70000	.78850	.77820	.75640	.63700	.65980	.67560	.05000	660.44000
1.936	GRADIENT	.00076	.00425	.00116	.00140	.00043	.00194	.00190	.00170	.00041	.12231

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(BETRO3) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RUN NO. 316/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
2.250	-1.100	-6.11270	2045.39999	.69780	.68270	.63840	.52150	.55560	.58260	.04120	626.99000
2.250	1.100	-6.11300	2044.70000	.69930	.68400	.63340	.52390	.55770	.58650	.04000	626.77000
2.250	3.941	-6.11290	2044.70000	.69960	.68660	.63930	.52900	.56150	.58840	.03860	626.77000
2.250	5.996	-6.10990	2044.70000	.70270	.69340	.65680	.53360	.56320	.59260	.03870	626.77000
2.250	8.052	-6.11170	2044.70000	.70510	.69450	.66290	.53820	.56960	.59230	.03820	626.77000
2.250	10.105	-6.11200	2044.70000	.70450	.69350	.66670	.54030	.57000	.59360	.03820	626.77000
2.250	12.135	-6.10990	2046.10001	.70360	.69300	.66810	.54520	.57240	.59420	.03720	627.21000
2.250	14.213	-6.10990	2049.70001	.70360	.69300	.67060	.54500	.57190	.59280	.03720	628.29000
2.250	16.342	-6.10270	2051.79999	.70360	.69320	.66720	.53950	.56420	.59070	.03450	628.94000
2.250	18.425	-6.10090	2052.50000	.70120	.68540	.66990	.53480	.56140	.58620	.03350	629.16000
2.250	20.440	-6.09860	2051.79999	.69950	.68430	.66900	.53500	.56140	.58770	.03230	629.94000
2.250	22.509	-6.09470	2051.79999	.69580	.68070	.66350	.52690	.55530	.57570	.03160	629.94000
2.250	24.563	-6.09180	2051.29999	.69160	.67540	.65370	.51900	.54690	.56830	.03070	630.03000
2.250	26.583	-6.08900	2051.89999	.68710	.67220	.64720	.51610	.54010	.56200	.03050	631.11000
	GRADIENT			.00044	.00097	.00024	.00166	.00146	.00143	.00064	-0.05409

RUN NO. 441/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
2.499	1.034	-4.91730	1500.80000	.60610	.59210	.54270	.41050	.44720	.47640	.02430	364.69000
2.499	2.131	-4.94050	1500.10001	.60630	.59350	.54520	.41410	.45100	.48160	.02370	364.50000
2.499	4.183	-4.96100	1499.39999	.60790	.59610	.55210	.41990	.45610	.48540	.02320	364.50000
2.499	6.219	-4.97910	1500.10001	.60920	.59930	.55910	.42550	.46030	.48850	.02300	364.50000
2.499	8.250	-4.99180	1500.10001	.60820	.59820	.55820	.43180	.46500	.49040	.02250	364.50000
2.499	10.237	-5.00220	1500.10001	.60930	.59900	.56390	.43650	.46780	.49240	.02100	364.50000
2.499	12.331	-5.00860	1500.10001	.60910	.59600	.56980	.43920	.47000	.49340	.02030	364.50000
2.499	14.413	-5.00990	1500.10001	.60840	.59420	.56900	.44040	.47050	.49240	.01980	364.50000
2.499	16.413	-5.00790	1500.10001	.60720	.59190	.56950	.44000	.46820	.49070	.01990	364.50000
2.499	18.451	-5.00240	1500.10001	.60470	.58890	.56770	.43730	.46580	.48770	.01870	364.50000
2.499	20.507	-4.99270	1500.10001	.60310	.58650	.56500	.43300	.46100	.48230	.01850	364.50000
2.499	22.544	-4.97780	1500.10001	.59770	.58200	.56120	.42750	.45510	.47650	.01800	364.50000
2.499	24.562	-4.96950	1500.10001	.59360	.57880	.55830	.42050	.44650	.46820	.01840	364.50000
2.499	26.581	-4.94950	1500.10001	.59080	.57540	.55540	.41760	.44230	.46400	.01820	364.50000
	GRADIENT			.00044	.00098	.00020	.00225	.00218	.00220	.00027	-0.09047

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES.

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(BETW081 (02 AUG 75)

REFERENCE DATA

SPEF = 2593.0000 SQ.FT. XMRP = 1076.6808 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = -.000
 AILRON = -.000 DEFAP = -7.170

RUN NO. 440/ 0 RAN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	01PSF)
3.040	-1.005	-4.89390	2808.60001	.41660	.40490	.35160	.23200	.26550	.29510	.01000	333.30000
3.040	2.030	-4.95640	2007.89999	.41750	.40640	.35600	.23410	.26550	.29780	.00940	333.18000
3.040	4.060	-4.92740	2008.60001	.41870	.40840	.36290	.23580	.27310	.30100	.00820	333.30000
3.040	6.109	-4.94570	2008.60001	.41840	.40840	.36750	.24320	.27630	.30340	.00880	333.30000
3.040	8.123	-4.95860	2008.60001	.41960	.40880	.37360	.24920	.28050	.30520	.00870	333.30000
3.040	10.160	-4.95750	2008.60001	.41990	.40710	.37400	.25380	.28410	.30760	.00820	333.30000
3.040	12.192	-4.97410	2008.60001	.42100	.40580	.37640	.25650	.28570	.30830	.00810	333.30000
3.040	14.217	-4.97410	2008.60001	.42140	.40460	.37870	.25840	.28550	.30900	.00830	333.30000
3.040	16.249	-4.97350	2008.60001	.42090	.40330	.37760	.25980	.28750	.30930	.00820	333.30000
3.040	18.282	-4.96550	2008.60001	.41950	.39960	.37500	.25890	.28640	.30770	.00770	333.30000
3.040	20.327	-4.95740	2007.89999	.41750	.39780	.37270	.25670	.28330	.30410	.00750	333.18000
3.040	22.356	-4.94280	2008.60001	.41380	.39470	.36920	.25330	.27880	.30300	.00730	333.30000
3.040	24.402	-4.92490	2007.89999	.40840	.39050	.36520	.24880	.27280	.29260	.00730	333.15000
3.040	25.411	-4.91470	2008.60001	.40500	.38780	.36450	.24620	.26940	.28910	.00730	333.30000
GRADIENT				.00052	.00086	.00278	.00167	.00162	.00145	.00020	- .00003

RUN NO. 431/ 0 RAN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	01PSF)
3.499	-1.189	-5.09780	2544.10001	.29740	.28900	.24080	.14410	.17120	.19490	.00530	286.32000
3.499	1.829	-5.12230	2544.10001	.29890	.28960	.24540	.14590	.17570	.19490	.00530	286.32000
3.499	3.854	-5.14290	2542.60001	.30060	.29110	.25140	.14670	.17670	.20340	.00450	286.16000
3.499	5.891	-5.15910	2542.60001	.30150	.29120	.25550	.15220	.17960	.20200	.00470	286.16000
3.499	7.907	-5.17240	2541.89999	.30180	.29030	.25910	.15750	.18350	.20440	.00450	286.08000
3.499	9.935	-5.18230	2545.50000	.30330	.28920	.26010	.16080	.18560	.20560	.00450	287.04000
3.499	11.964	-5.18900	2550.39999	.30400	.28850	.26298	.16350	.18730	.20670	.00450	287.04000
3.499	14.007	-5.19030	2554.01000	.30470	.28720	.26460	.16590	.18910	.20830	.00430	288.07000
3.499	16.021	-5.18830	2559.60001	.30400	.28500	.26240	.16670	.19000	.20770	.00430	288.07000
3.499	18.075	-5.18060	2563.89999	.30270	.28320	.26010	.16670	.18940	.20770	.00420	289.55000
3.499	20.120	-5.17210	2563.50000	.30020	.28150	.25750	.16600	.18770	.20560	.00430	289.15000
3.499	22.110	-5.15660	2575.20001	.29620	.27810	.25450	.16330	.18480	.20180	.00430	289.65000
3.499	24.139	-5.13750	2575.89999	.29100	.27400	.25100	.15990	.18000	.19560	.00410	289.90000
3.499	25.154	-5.12780	2578.70001	.28900	.27180	.24970	.15670	.17780	.19420	.00430	290.22000
GRADIENT				.00079	.00077	.00262	.00111	.00136	.00135	.00010	- .03559

(BETROH) : 02 AUG 76

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 SDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09%)
ARC 11-97-87-09% 0A161 ORBFTER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 304/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
1.556	.029	-2.59140	1573.70000	.92910	.92310	.91220	.88970	.85710	.83470	.81110	669.55000
1.555	2.035	-2.57970	1573.00000	.93010	.92220	.91480	.89160	.85870	.83560	.81210	669.25000
1.556	4.118	-2.58950	1572.00000	.93270	.92400	.91630	.89320	.86080	.83780	.81430	669.55000
1.556	6.182	-2.59110	1573.00000	.93430	.92780	.91980	.89690	.86490	.84190	.81840	669.25000
1.555	8.258	-2.57930	1573.70000	.93700	.93190	.92050	.89820	.86550	.84250	.81900	669.55000
1.556	10.330	-2.58900	1573.00000	.93760	.93290	.92320	.89990	.86660	.84360	.82010	669.25000
1.556	12.378	-2.59140	1573.00000	.93520	.93150	.92260	.89910	.86580	.84280	.81930	669.55000
1.555	14.469	-2.57970	1573.70000	.93420	.93040	.92310	.89940	.86610	.84310	.81960	669.25000
1.556	16.517	-2.58950	1573.00000	.93140	.92890	.92100	.89750	.86420	.84120	.81770	669.55000
1.556	18.576	-2.59110	1573.00000	.92930	.92570	.91890	.89540	.86210	.83910	.81560	669.25000
1.555	20.633	-2.57930	1573.70000	.92570	.92140	.91390	.89040	.85710	.83410	.81060	669.55000
1.556	22.693	-2.58900	1573.00000	.91740	.91360	.90750	.88330	.85000	.82700	.80350	669.25000
1.556	24.743	-2.59140	1572.00000	.91740	.91370	.90280	.87190	.83860	.81560	.79210	669.55000
GRADIENT		.00022	-34319	.00089	.00057	.00150	.00135	.00140	.00101	-.00056	-1.14708

RUN NO. 307/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
1.750	1.033	-2.41170	1643.39999	.85990	.85830	.85636	.80570	.82130	.83520	.84420	664.11000
1.750	1.934	-2.41270	1651.50000	.87160	.85790	.83330	.80900	.82440	.83860	.84710	664.86000
1.750	2.979	-2.41220	1652.63999	.87190	.86020	.83530	.81110	.82540	.84000	.84830	665.53000
1.750	4.047	-2.41220	1653.60001	.87380	.86530	.84420	.81390	.82710	.84110	.84930	665.82000
1.750	6.117	-2.41260	1652.89999	.87530	.86730	.84950	.81620	.82950	.84270	.85090	665.53000
1.750	8.191	-2.41100	1653.60001	.87550	.86870	.85230	.81700	.83090	.84510	.85320	665.82000
1.750	10.266	-2.41040	1655.00000	.87470	.86860	.85480	.81350	.83430	.84820	.85620	666.50000
1.750	12.341	-2.41090	1655.00000	.87270	.86730	.85440	.81240	.83250	.84630	.85430	666.79000
1.750	14.415	-2.41420	1654.30000	.87230	.86570	.85600	.81750	.83000	.84320	.85120	667.24000
1.750	16.490	-2.41090	1655.70000	.87020	.86430	.85350	.81540	.82650	.83920	.85200	667.53000
1.750	18.565	-2.41320	1657.10001	.86720	.86160	.85060	.81570	.82530	.83720	.85000	667.82000
1.750	20.640	-2.41380	1657.10001	.85910	.85310	.83700	.81450	.82330	.83540	.84820	668.11000
1.750	22.713	-2.41380	1657.10001	.85690	.85040	.83450	.81150	.81950	.83140	.84420	668.40000
1.750	24.786	-2.41012	1657.10001	.85073	.84047	.82024	.80132	.81100	.82393	.83682	668.69000
GRADIENT		.00012	85826	.00073	.00047	-.00024	.00132	.00100	.00093	-.00010	-.54822

TABULATED DATA - QAI61 (ARC 11-97-27-094)

ARC 11-97-87-094 QAI61 ORBITER + RAKES

(BETRON) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA =
 AILRON =
 ELEVON = -2.000
 BOFLAP = .000
 -0.000
 -7.170

RUN NO. 314/ 0 RV/L = 3.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	FT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.935	-2.92380	1842.39999	77900	.76160	.76290	.76330	.67540	.70820	.72590	.08600	660.69000
1.935	-2.92510	1842.39999	78120	.76290	.76450	.76500	.68070	.70510	.72830	.08530	660.69000
1.935	-2.92340	1841.70000	78080	.76450	.76930	.73950	.68480	.71540	.73240	.08520	660.69000
1.935	-2.92210	1842.39999	78240	.76930	.77400	.74430	.69070	.71940	.73560	.08500	660.69000
1.935	-2.92570	1842.39999	78250	.77400	.77900	.74900	.69420	.72300	.73900	.08490	660.69000
1.935	-2.92440	1841.70000	78170	.77900	.78380	.75600	.69930	.72810	.74400	.08480	660.69000
1.935	-2.92230	1841.70000	78500	.78380	.78800	.75800	.70300	.73100	.74700	.08470	660.69000
1.935	-2.92300	1841.70000	78470	.78800	.79300	.76300	.70800	.73600	.75200	.08460	660.69000
1.935	-2.92110	1841.70000	78250	.79300	.79800	.76800	.71300	.74100	.75700	.08450	660.69000
1.935	-2.91870	1841.70000	77710	.79800	.80300	.77300	.71800	.74600	.76200	.08440	660.69000
1.935	-2.91560	1842.39999	77610	.80300	.80800	.77800	.72300	.75100	.76700	.08430	660.69000
1.935	-2.91630	1842.39999	77940	.80800	.81300	.78300	.72800	.75600	.77200	.08420	660.69000
1.935	-2.91300	1842.39999	77610	.81300	.81800	.78800	.73300	.76100	.77700	.08410	660.69000
1.935	-2.91727	1842.39999	76300	.81800	.82300	.79300	.73800	.76600	.78200	.08400	660.69000
1.935	-2.91950	1848.10001	.00044	.00072	.00072	.00103	.67780	.70100	.71500	.08390	660.69000
1.935	GRADIENT	.00010	.17395	.00072	.00072	.00103	.00230	.00205	.00151	.00000	.08210

RUN NO. 317/ 0 RV/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
2.250	-3.07790	2053.60001	.67280	.64960	.64920	.60350	.54920	.58720	.61540	.04100	631.33000
2.250	-3.07710	2058.89999	.67560	.65330	.65230	.60870	.55230	.59050	.61600	.04080	631.33000
2.250	-3.07600	2059.89999	.67600	.65520	.65580	.61150	.55580	.59300	.61900	.04000	631.33000
2.250	-3.07470	2058.89999	.67820	.65980	.65170	.62180	.56170	.59400	.62000	.03800	631.33000
2.250	-3.07480	2059.60001	.68040	.66250	.65550	.62900	.56550	.59560	.62000	.03700	631.33000
2.250	-3.07160	2060.29999	.67930	.66300	.65730	.63070	.57220	.60210	.62620	.03600	631.33000
2.250	-3.07080	2060.29999	.67810	.66270	.65700	.63550	.57530	.60390	.62800	.03500	631.33000
2.250	-3.06930	2060.29999	.67500	.66150	.65600	.63950	.57810	.60450	.62450	.03400	631.33000
2.250	-3.06650	2060.29999	.67170	.65820	.65300	.63990	.57140	.60300	.62400	.03300	631.33000
2.250	-3.06440	2060.29999	.66940	.65550	.65000	.63570	.56830	.60400	.62400	.03200	631.33000
2.250	-3.06250	2060.29999	.66570	.65170	.64600	.63260	.56460	.60300	.62300	.03100	631.33000
2.250	-3.05420	2060.29999	.66120	.64770	.64200	.62850	.56050	.60300	.62300	.03000	631.33000
2.250	-3.05240	2060.29999	.65870	.64490	.63900	.62550	.55750	.60300	.62300	.02900	631.33000
2.250	GRADIENT	.00047	.17234	.00072	.00072	.00103	.00164	.00101	.00089	.00000	.08415

(BETRON) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 ATLIRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
2.499	.110	-1.94200	1500.10001	.57740	.55400	.50080	.44340	.48610	.51680	.02510	384.50000
2.499	2.147	-1.95050	1500.10001	.57980	.55710	.50560	.44580	.48960	.51960	.02470	384.50000
2.499	4.174	-1.96070	1500.10001	.58230	.56070	.51270	.45200	.49260	.52400	.02380	384.50000
2.499	6.223	-1.96890	1500.10001	.58390	.56430	.52080	.45700	.49700	.52820	.02430	384.50000
2.499	8.251	-1.97540	1500.10001	.58410	.56590	.52480	.46340	.50320	.52710	.02390	384.50000
2.499	1.793	-1.97980	1500.10001	.58490	.56770	.52920	.46770	.50210	.52860	.02230	384.50000
2.499	1.338	-1.98220	1500.10001	.58360	.56820	.53620	.47080	.50440	.52850	.02080	384.50000
2.499	14.382	-1.98470	1496.60001	.58090	.56590	.53830	.47410	.50570	.52850	.02030	383.78000
2.499	16.418	-1.98390	1497.30000	.57650	.56240	.53720	.47590	.50630	.52810	.02030	383.78000
2.499	18.492	-1.98320	1497.30000	.57260	.55810	.53430	.47430	.50340	.52440	.01928	383.60000
2.499	20.523	-1.98100	1496.60001	.56880	.55430	.53180	.47190	.49990	.51480	.01900	383.78000
2.499	22.559	-1.97580	1497.30000	.56420	.54990	.52870	.46780	.48800	.50950	.01920	383.78000
2.499	24.593	-1.97050	1497.30000	.55840	.54500	.52290	.46300	.48600	.50670	.01890	383.78000
2.499	26.629	-1.96640	1497.30000	.55380	.54030	.52020	.45980	.48470	.50670	.01890	383.78000
2.499	GRADIENT	-.00460	.00001	.00121	.00165	.00293	.00212	.00160	.00177	-.00032	.00000

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
3.040	.039	-1.86350	2018.50000	.39570	.37420	.31510	.26240	.30380	.33470	.01000	334.94000
3.040	2.071	-1.87300	2015.70000	.39720	.37390	.32020	.26430	.30570	.33680	.01010	334.94000
3.040	4.096	-1.88260	2012.89999	.39810	.37600	.32480	.26780	.30850	.33850	.00950	334.94000
3.040	6.126	-1.89180	2007.89999	.39850	.37820	.33410	.27270	.31220	.34070	.00950	333.18000
3.040	8.151	-1.89630	2007.89999	.39880	.38030	.33750	.28010	.31860	.34340	.00930	333.18000
3.040	10.189	-1.89930	2008.60001	.39820	.38180	.34190	.28390	.31890	.34490	.00870	333.30000
3.040	12.246	-1.90430	2008.60001	.39740	.38300	.34790	.28720	.32000	.34500	.00860	333.30000
3.040	14.286	-1.90530	2007.89999	.39450	.37970	.35040	.29110	.32260	.34620	.00800	333.18000
3.040	16.298	-1.90580	2008.60001	.39120	.37590	.34940	.29350	.32410	.34600	.00790	333.30000
3.040	18.331	-1.90290	2007.89999	.38750	.37190	.34580	.29420	.32320	.34410	.00790	333.30000
3.040	20.382	-1.89960	2008.60001	.38410	.36800	.34350	.29310	.32090	.34130	.00850	333.30000
3.040	22.429	-1.89560	2008.60001	.37950	.36340	.34010	.28970	.31630	.33630	.00790	333.30000
3.040	24.449	-1.89970	2008.60001	.37360	.35920	.33610	.28570	.31080	.33150	.00800	333.30000
3.040	26.466	-1.88610	2008.60001	.37000	.35490	.33340	.28310	.30770	.32870	.00800	333.30000
3.040	GRADIENT	-.00471	-1.38050	.00059	.00118	.00239	.00133	.00116	.00094	-.00012	-.22926

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 OF POOR QUALITY

(BETRON) (02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ATLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 4327 0 RM/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
3.499	-1.180	-1.98260	2607.00000	.28020	.25940	.20830	.16546	.20050	.22690	.00530	293.40000
3.499	1.873	-1.99070	2608.39999	.28110	.26120	.21220	.16740	.20230	.22950	.00510	293.56000
3.499	3.873	-2.00030	2609.10001	.28180	.26400	.21790	.17120	.20570	.23210	.00510	293.64000
3.499	5.897	-2.00580	2612.70001	.28140	.26490	.22530	.17460	.20780	.23288	.00520	294.04000
3.499	7.941	-2.01130	2612.70001	.28120	.26670	.22830	.18030	.21110	.23500	.00490	294.04000
3.499	9.942	-2.01790	2617.60001	.27980	.26680	.23120	.18400	.21390	.23690	.00490	294.60000
3.499	11.971	-2.02110	2614.10001	.27970	.26730	.23680	.18780	.21620	.23830	.00450	294.20000
3.499	13.998	-2.02160	2616.20001	.27730	.26430	.23800	.19100	.21820	.23880	.00450	294.44000
3.499	16.031	-2.02120	2614.10001	.27450	.26060	.23720	.19330	.21920	.23900	.00450	294.20000
3.499	18.083	-2.01960	2615.50000	.27250	.25770	.23540	.19400	.21770	.23750	.00440	294.56000
3.499	20.096	-2.01640	2614.10001	.26940	.25420	.23260	.19340	.21430	.23550	.00460	294.20000
3.499	22.126	-2.01280	2618.29999	.26580	.25080	.22970	.19110	.21430	.23190	.00450	294.68000
3.499	24.161	-2.00710	2623.29999	.26090	.24600	.22630	.18770	.20960	.22810	.00440	295.23000
3.499	25.182	-2.00100	2628.89999	.25780	.24350	.22430	.18610	.20760	.22570	.00460	295.87000
3.499	GRADIENT	-0.00437	.51884	.00039	.00138	.00237	.00143	.00128	.00128	-.00005	.05929

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAMES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000
AILRON = .000
ELEVON = .000
BDFLAP = -7.170

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RUN NO. 21/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.596	.077	.18030	2642.39999	1.00050	1.00060	1.00030	.99990	1.00030	1.00010	.88930	517.31000
.596	2.128	.20500	2642.39999	1.00040	1.00050	1.00030	1.00030	1.00010	1.00010	.93610	517.31000
.597	4.186	.20500	2642.39999	1.00040	1.00050	1.00040	1.00060	1.00030	1.00000	.96350	516.70000
.596	6.256	.21280	2642.39999	1.00010	1.00020	1.00050	1.00040	1.00030	1.00010	.97850	516.72000
.596	8.352	.21850	2642.39999	1.00040	1.00020	1.00020	1.00000	1.00020	1.00030	.98760	517.31000
.596	15.447	.21680	2642.39999	1.00010	1.00040	.99990	.99990	1.00030	1.00000	.99240	516.72000
.596	12.543	.21650	2642.39999	1.00010	.99990	1.00020	.99990	1.00010	.99950	.99560	516.72000
.596	14.659	.22750	2642.39999	1.00030	1.00010	1.00030	.99980	.99996	.99970	.99590	517.31000
.596	11.776	.22120	2642.39999	.99970	.99950	.99990	.99990	.99990	.99950	.99700	517.31000
.597	15.830	.21980	2642.39999	.99870	.99930	.99870	.99890	.99900	.99870	.99760	513.67000
.594	21.003	.20840	2642.39999	.99710	.99780	.98640	.99730	.99790	.99870	.99840	513.67000
.599	23.112	.20610	2632.50000	.99400	.99520	.99180	.99410	.99620	.99650	.99720	518.29000
.597	25.183	.21330	2651.79999	.98820	.99050	.98450	.98900	.99270	.99310	.99460	516.53000
	GRADIENT	.00501	-.00002	-.00002	-.00002	.00002	.00017	.00000	-.00002	.01805	282.6

RUN NO. 18/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.908	.047	.19640	2114.00000	.99960	1.00000	.99990	.99970	.99970	.99940	.98030	708.55000
.899	2.145	.21110	2114.70001	.99970	.99960	.99970	1.00010	1.00030	.99870	.97720	707.74000
.901	4.251	.21320	2117.60001	1.00000	.99950	.99950	.99950	.99950	.99950	.98590	710.56000
.899	6.354	.21700	2115.39998	.99950	.99950	.99920	.99910	.99930	.99920	.99130	708.23000
.897	8.469	.21800	2114.70001	1.00040	.99960	.99950	.99950	1.00000	1.00000	.99490	708.55000
.898	16.597	.21460	2117.60001	1.00040	1.00020	1.00040	1.00020	1.00020	.99980	.99540	707.98000
.899	12.720	.23140	2116.20001	.99950	.99970	.99980	.99930	.99920	.99980	.99710	708.73000
.900	14.863	.23340	2116.89999	.99930	.99950	.99910	.99920	.99920	.99920	.99658	710.07000
.899	17.013	.21610	2115.20001	.99900	.99950	.99940	.99910	.99960	.99960	.99760	708.29000
.895	19.157	.21760	2117.60001	.99780	.99850	.99790	.99770	.99860	.99840	.99710	707.12000
.895	21.283	.20940	2116.20001	.99610	.99720	.99580	.99630	.99730	.99730	.99710	705.70000
.897	23.397	.20450	2116.20001	.99270	.99450	.99060	.99240	.99480	.99560	.99610	707.00000
.896	25.438	.21610	2116.20001	.98590	.98920	.98230	.98740	.99170	.99150	.99440	706.57000
	GRADIENT	.00399	.85671	.00010	-.00012	-.00010	-.00005	-.00002	.00002	.00609	478.0

(BETRO5) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
ATLON = .000
ELEVON = .000
BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094-0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.6880 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 16/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.199	.044	.17490	2008.60001	.99350	.99350	.99300	.99320	.99300	.99280	.99150	834.56000
1.204	2.147	.17600	2010.10001	.99430	.99380	.99300	.99280	.99340	.99320	.99140	836.66000
1.209	4.270	.22600	2007.89999	.99420	.99370	.99310	.99310	.99350	.99370	.99230	834.77000
1.195	6.385	.21090	2009.39999	.99440	.99420	.99360	.99330	.99400	.99440	.99280	837.95000
1.198	8.551	.22430	2009.39999	.99400	.99400	.99340	.99300	.99330	.99420	.99260	834.55000
1.192	10.721	.22420	2008.60001	.99430	.99430	.99360	.99290	.99340	.99340	.99320	833.32000
1.195	12.879	.21610	2009.39999	.99450	.99430	.99370	.99320	.99340	.99340	.99300	833.95000
1.196	15.042	.21220	2008.60001	.99360	.99320	.99240	.99240	.99230	.99230	.99240	833.95000
1.198	17.205	.20840	2009.39999	.99150	.99220	.99100	.99100	.99100	.99140	.99130	832.35000
1.191	19.361	.20530	2010.10001	.98940	.99060	.98900	.98910	.98900	.98940	.99040	832.69000
1.190	21.506	.20800	2010.10001	.98650	.98830	.98590	.98800	.98800	.98840	.98970	833.53000
1.193	23.630	.20610	2009.39999	.98100	.98460	.97970	.98340	.98600	.98550	.98820	831.94000
1.189	25.739	.01211	-16707	.00014	.00005	.00002	.00002	.00012	.00021	.00019	.04815

RUN NO. 12/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.399	.023	.21940	2046.10001	.95340	.95650	.95810	.94950	.95340	.95910	.96440	882.14000
1.401	2.114	.23550	2046.80000	.96420	.96030	.96080	.95250	.95450	.95950	.96180	872.48000
1.399	4.216	.18480	2046.10001	.96440	.96120	.96080	.95470	.95490	.95980	.96040	882.15000
1.395	6.341	.20820	2046.10001	.96650	.96230	.96040	.95430	.95630	.96170	.96060	882.07000
1.395	8.495	.22180	2047.50000	.96640	.96360	.96050	.95470	.95590	.96100	.96010	882.67000
1.394	10.652	.22480	2047.50000	.96580	.96150	.96080	.95470	.95380	.96080	.96050	882.66000
1.398	12.797	.23050	2046.80000	.96540	.96180	.96310	.95690	.95740	.96120	.96260	882.32000
1.398	14.956	.22300	2047.50000	.96410	.96080	.96180	.95520	.95630	.96100	.96000	882.67000
1.395	17.145	.20380	2046.80000	.96220	.95900	.95880	.95140	.95560	.96010	.95910	882.38000
1.392	19.270	.19820	2046.80000	.96050	.95720	.95440	.95070	.95530	.95950	.95950	882.30000
1.391	21.424	.22280	2048.29999	.95720	.95420	.95330	.94830	.95350	.95720	.95750	882.85000
1.391	23.562	.20640	2048.29999	.95460	.95160	.95200	.94320	.94950	.95300	.95600	882.85000
1.395	25.695	.20950	2049.00000	.94950	.94800	.94640	.94170	.94550	.94860	.95300	882.98000
	GRADIENT			.00024	.00064	.00064	.00122	.00036	.00017	.00035	.00465

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(BETROS) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6900 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 303/ 0 RNAL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
1.556	.037	-.52700	1569.39999	.92160	.91580	.90450	.89970	.90770	.91560	.92000	.91500
1.556	2.335	-.53090	1570.10001	.92870	.91300	.90650	.90230	.91020	.91680	.92270	.91680
1.556	4.117	-.53149	1569.39999	.93320	.91440	.90720	.90540	.91260	.91920	.92500	.91920
1.556	6.192	-.53080	1570.10001	.93770	.91820	.90900	.90620	.91280	.91890	.92500	.91890
1.556	8.266	-.53130	1570.80000	.94250	.92340	.91250	.90870	.91450	.92080	.92700	.92080
1.556	10.334	-.53060	1573.00000	.94750	.92800	.91260	.90800	.91320	.92010	.92700	.92010
1.556	12.382	-.52880	1573.70000	.95210	.93100	.91290	.90250	.91160	.91940	.92700	.91940
1.556	14.468	-.53470	1573.00000	.95680	.93400	.91200	.90440	.91420	.91990	.92700	.91990
1.556	16.623	-.53340	1573.70000	.96160	.93700	.91350	.90080	.91200	.91700	.92700	.91700
1.556	18.720	-.53090	1574.39999	.96650	.94180	.91560	.90550	.91420	.91900	.92700	.91900
1.556	20.757	-.52790	1573.70000	.97130	.94660	.91860	.90740	.91500	.92000	.92700	.92000
1.556	22.928	-.51890	1573.00000	.97610	.95130	.92040	.90910	.91600	.92100	.92700	.92100
1.556	25.945	-.51760	1573.70000	.98090	.95610	.92580	.91400	.92000	.92500	.93000	.92500
1.556	GRADIENT	-.00107	-.00253	.00039	-.00034	.00066	.00140	.00120	.00088	-.00000	-.00100

RUN NO. 308/ 0

RNAL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
1.750	-.087	-.36100	1657.10001	.85770	.84670	.82470	.82280	.83920	.85240	.87400	.85240
1.750	3.983	-.36270	1657.80000	.86570	.84570	.82230	.82450	.84080	.85430	.87400	.85430
1.750	6.060	-.36290	1657.10001	.86700	.84790	.82340	.82920	.84290	.85630	.87400	.85630
1.750	8.123	-.36260	1656.39999	.86830	.84820	.82410	.83160	.84570	.85740	.87400	.85740
1.750	10.188	-.36240	1657.10001	.86960	.84950	.82460	.83260	.84620	.85750	.87400	.85750
1.750	12.231	-.36110	1657.10001	.87090	.85080	.82570	.83370	.84780	.85930	.87400	.85930
1.750	14.313	-.36030	1656.39999	.87220	.85210	.82680	.83480	.84890	.86040	.87400	.86040
1.750	16.464	-.35900	1657.10001	.87350	.85340	.82790	.83590	.85000	.86150	.87400	.86150
1.750	18.557	-.35760	1656.39999	.87480	.85470	.82900	.83700	.85110	.86260	.87400	.86260
1.750	20.589	-.34900	1657.10001	.87610	.85600	.83010	.83810	.85220	.86370	.87400	.86370
1.750	22.748	-.34040	1657.10001	.87740	.85730	.83140	.83940	.85350	.86500	.87400	.86500
1.750	25.766	-.33730	1656.39999	.87870	.85860	.83270	.84070	.85480	.86630	.87400	.86630
1.750	GRADIENT	-.00046	-.00195	.00073	.00030	-.00034	.00133	.00115	.00096	-.00017	-.00080

TABULATED DATA - 0A1E1 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A1E1 ORBITER * RAKES

(BETRO5) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6886 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = .000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 313/ 0 RNL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.996	-0.019	-87570	1842.39999	.75858	.73940	.70730	.70010	.72650	.74950	.05640	.660.69000
1.996	0.966	-87676	1841.70000	.76240	.74660	.71290	.70260	.73030	.75210	.05650	.650.44000
1.996	4.083	-87800	1842.39999	.76550	.75050	.71820	.70450	.72980	.75300	.05720	.660.69000
1.996	6.093	-87796	1842.39999	.76680	.75000	.72080	.70840	.73470	.75580	.05690	.660.69000
1.996	8.153	-87770	1842.39999	.76520	.74910	.72470	.71130	.73550	.75870	.05320	.660.69000
1.996	10.211	-87780	1843.10001	.76580	.75300	.73070	.71550	.73840	.75680	.06290	.660.69000
1.996	12.254	-87470	1842.39999	.76460	.75260	.73280	.71350	.73990	.75730	.05150	.660.69000
1.996	14.335	-87310	1842.39999	.76450	.75320	.73330	.71860	.73990	.75960	.05910	.660.69000
1.996	16.477	-87050	1843.10001	.76190	.75090	.73390	.71720	.73470	.75630	.05900	.660.69000
1.996	18.566	-86650	1842.39999	.75980	.74900	.73160	.71430	.73540	.74950	.05850	.660.69000
1.996	20.590	-86540	1842.39999	.75720	.74800	.73130	.71100	.73250	.74760	.05770	.660.69000
1.996	22.667	-86160	1842.39999	.75140	.73970	.71600	.70620	.72820	.74460	.05510	.660.69000
1.996	24.727	-85810	1841.70000	.74600	.73460	.71040	.70250	.72340	.73870	.05280	.660.69000
1.996	25.753	-85530	1841.70000	.74110	.72920	.70490	.69920	.71890	.73430	.05090	.660.69000
	GRADIENT			.00175	.00273	.00209	.00111	.00076	.00033	.00022	.00062

RUN NO. 318/ 0 RNL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
2.250	-0.086	-1.03120	2060.29999	.65140	.62770	.58130	.57230	.61170	.63970	.03990	.631.54000
2.250	1.899	-1.03020	2060.29999	.65470	.63170	.58740	.57360	.61330	.64180	.03910	.631.54000
2.250	3.953	-1.03160	2059.60001	.65880	.63590	.59350	.57570	.61180	.64090	.04020	.631.54000
2.250	6.005	-1.03050	2060.29999	.66000	.63820	.60040	.58050	.61530	.64220	.04020	.631.54000
2.250	8.056	-1.02910	2060.29999	.66140	.64119	.60450	.58550	.62070	.64460	.03920	.631.54000
2.250	10.108	-1.02810	2059.60001	.66240	.64290	.61050	.59210	.62350	.64740	.03770	.631.54000
2.250	12.143	-1.02740	2059.60001	.66020	.64480	.61550	.59410	.62340	.64530	.03680	.631.54000
2.250	14.218	-1.02570	2060.29999	.65900	.64400	.61670	.59750	.62500	.64530	.03550	.631.54000
2.250	16.348	-1.02420	2060.29999	.65780	.64340	.61870	.59830	.62420	.64290	.03500	.631.54000
2.250	18.426	-1.02220	2059.60001	.65380	.63980	.61790	.59700	.62300	.64120	.03380	.631.54000
2.250	20.441	-1.01700	2060.29999	.65040	.63610	.61660	.59190	.62100	.63760	.03340	.631.54000
2.250	22.512	-1.01480	2059.60001	.64480	.63000	.60990	.58810	.61390	.63250	.03210	.631.54000
2.250	24.564	-1.01070	2059.60001	.63850	.62310	.60290	.58290	.60910	.62960	.03100	.631.54000
2.250	25.586	-1.00770	2058.89999	.63470	.62000	.59980	.58030	.60580	.62540	.03100	.631.54000
	GRADIENT			.00134	.00203	.00204	.00084	.00002	.00054	.00008	.00054

(BETROSEY 1702 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 BOFLAP = .7370

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
2.499	.114	.04560	1497.30000	.55080	.52470	.47420	.46800	.51330	.54390	.02490	.01957
2.499	2.147	.04528	1497.30000	.55300	.52870	.47820	.47150	.51560	.54580	.02430	.02430
2.499	4.183	.04450	1496.60001	.55440	.53230	.48660	.47420	.51890	.54890	.02320	.02320
2.499	6.218	.04350	1497.30000	.55570	.53410	.49270	.47820	.52090	.55110	.02310	.02310
2.499	8.256	.04270	1497.30000	.55810	.53710	.49670	.48460	.52480	.55260	.02470	.02470
2.499	10.293	.04160	1496.60001	.55950	.54030	.50170	.48990	.52710	.55400	.02390	.02390
2.499	12.343	.03980	1497.30000	.55880	.54160	.50910	.49580	.53080	.55440	.02450	.02450
2.499	14.376	.03800	1496.60001	.55800	.54120	.51180	.49970	.53240	.55400	.02190	.02190
2.499	16.410	.03670	1497.30000	.55590	.53900	.51250	.50130	.53180	.55170	.02090	.02090
2.499	18.456	.03420	1496.60001	.55250	.53710	.51340	.50370	.52750	.54900	.02120	.02120
2.499	20.499	.03250	1497.30000	.54780	.53310	.51020	.50040	.52750	.54420	.02040	.02040
2.499	22.542	.03080	1496.60001	.54200	.52890	.50450	.49640	.52390	.54000	.01990	.01990
2.499	24.585	.02870	1497.30000	.53470	.52050	.49910	.49310	.51840	.53640	.01970	.01970
2.499	26.623	.02780	1496.60001	.52990	.51650	.49590	.49050	.51460	.53400	.00942	.00942
2.499	GRADIENT	.00027	.17268	.00088	.00187	.00280	.00152	.00888	.00123		

RUN NO. 4384 8 RUN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
3.040	.050	.14640	2017.80000	.36970	.34160	.28920	.28500	.33100	.36200	.01020	.01957
3.040	2.085	.14750	2017.80000	.37130	.34550	.29310	.28720	.33210	.36470	.01070	.01070
3.040	4.141	.14700	2017.10001	.37330	.34970	.29920	.29060	.33438	.36400	.00980	.00980
3.040	6.195	.14690	2017.80000	.37390	.35120	.30690	.29530	.33828	.36830	.00960	.00960
3.040	8.158	.14540	2017.10001	.37550	.35370	.31120	.30230	.34190	.36940	.00930	.00930
3.040	10.203	.14410	2017.80000	.37580	.35590	.31690	.30630	.34400	.37000	.00950	.00950
3.040	12.242	.14070	2017.10001	.37680	.35830	.32380	.31100	.34730	.37100	.00900	.00900
3.040	14.280	.13990	2017.80000	.37370	.35670	.32588	.31390	.34850	.37080	.00850	.00850
3.040	16.303	.13940	2017.10001	.37080	.35430	.32780	.31690	.34840	.36840	.00850	.00850
3.040	18.344	.13460	2017.80000	.36750	.35170	.32720	.31750	.34710	.36550	.00860	.00860
3.040	20.382	.13300	2017.10001	.36200	.34690	.32320	.31650	.34390	.36550	.00850	.00850
3.040	22.424	.13250	2017.80000	.35700	.34160	.31870	.31350	.34000	.36550	.00850	.00850
3.040	24.469	.13190	2017.10001	.35040	.33580	.31440	.31050	.33580	.36550	.00810	.00810
3.040	26.511	.13000	2017.80000	.34620	.33190	.31080	.30770	.33300	.36550	.00810	.00810
3.040	GRADIENT	.00034	.17195	.00088	.00193	.00245	.00137	.00881	.00108		

(BETROSY) 02 AUG 76

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-894 04161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

BETA =
ATLON =

.000 ELEVON = .000
.000 BOFLAP = -7.470

PARAMETRIC DATA

RUN NO. 433/ 0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q (PSF)
3.499	1.173	.10250	2639.50000	.25940	.23440	.18770	.18270	.22180	.24980	.00540	.297.05000
3.499	1.854	.10120	2640.20001	.26140	.23800	.19100	.18440	.22290	.25230	.00560	.297.14000
3.499	3.896	.09880	2640.89999	.26370	.24110	.19890	.18760	.22560	.25330	.00540	.297.22000
3.499	5.895	.09930	2644.50000	.26380	.24230	.20280	.19050	.22760	.25470	.00510	.297.32000
3.499	7.954	.09710	2646.60001	.26420	.24450	.20690	.19710	.23180	.25520	.00520	.297.65000
3.499	9.951	.09530	2646.60001	.26360	.24530	.21120	.20130	.23450	.25760	.00500	.297.85000
3.499	11.972	.09570	2647.29999	.26330	.24740	.21700	.20550	.23750	.25850	.00480	.297.94000
3.499	13.998	.09510	2652.29999	.26060	.24600	.21870	.20800	.23800	.25840	.00460	.298.00000
3.499	16.028	.09520	2653.00000	.25840	.24380	.22090	.21090	.23880	.25860	.00440	.298.50000
3.499	18.059	.09060	2650.10001	.25940	.24110	.21970	.21130	.23750	.25690	.00430	.298.25000
3.499	20.101	.08710	2651.60001	.25440	.23760	.21730	.21070	.23520	.25500	.00440	.298.42000
3.499	22.129	.08580	2652.29999	.24690	.23330	.21350	.20920	.23210	.25330	.00440	.298.50000
3.499	24.165	.08500	2651.60001	.24200	.22900	.21000	.20620	.22860	.24920	.00460	.298.42000
3.499	26.183	.08390	2651.60001	.23870	.22590	.20730	.20420	.22640	.24700	.00470	.298.42000
3.499	GRADIENT	-.00066	.34406	.00081	.00165	.00202	.00120	.00091	.00086	.00000	.03512

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(BETRO6) 1 02 AUG 76

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XQ
LREF = 974.8000 IN. YMRP = .0000 IN. YQ
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 22/ 0 RVAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.598	.095	2.25100	2631.00000	1.00040	1.00050	1.00020	1.00040	1.00050	1.00040	99750
.597	2.139	2.28520	2631.00000	1.00050	1.00050	1.00010	1.00040	1.00070	1.00050	99750
.597	4.199	2.30270	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	6.264	2.30960	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	8.380	2.31120	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	10.485	2.32480	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	12.630	2.32620	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.598	14.765	2.25180	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	16.902	2.25940	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	19.104	2.26120	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	21.191	2.26070	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	23.191	2.26640	2632.00000	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.597	25.244	2.31300	2631.79999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
	GRADIENT	.01016	.19575	.00002	.00002	.00005	.00010	.00010	.00005	.00022

RUN NO. 19/ 0 RVAL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.898	.066	2.27870	2119.39999	1.00050	1.00050	1.00020	1.00040	1.00050	1.00040	99750
.901	2.154	2.28530	2119.39999	1.00050	1.00050	1.00010	1.00040	1.00070	1.00050	99750
.901	4.269	2.30480	2117.60001	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.901	6.380	2.32390	2115.27781	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.901	8.499	2.31770	2114.70001	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.903	10.630	2.32960	2115.89999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.899	12.782	2.31150	2115.20001	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.901	14.936	2.33270	2114.70001	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.901	17.120	2.33030	2115.39999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.900	19.272	2.33650	2115.89999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.897	21.373	2.31540	2115.38999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.896	23.439	2.30440	2114.70001	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
.895	25.493	2.32860	2115.89999	1.00050	1.00060	1.00010	1.00040	1.00050	1.00060	99750
	GRADIENT	.01894	.52395	.00012	.00007	.00021	.00007	.00017	.00012	.00022

(BETROS) 11-02 AUG 75

TABULATED DATA - 0A161 (ARC 11-97-87-034)
ARC 11-97-87-094 0A161 ORBI TER RAKES

PARAMETRIC DATA

BETA = 2.000
ELEVON = 0.000
BOFLAP = 7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

RUN NO. 15/ 0 RVL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
1.201	.046	2.2750	2010.8000	.99360	.99300	.99280	.99300	.99330	.99340	.99350
1.199	2.157	2.2780	2009.6000	.99380	.99320	.99278	.99290	.99300	.99330	.99340
1.200	4.278	2.3180	2009.3999	.99390	.99370	.99350	.99360	.99400	.99400	.99400
1.197	6.414	2.3200	2010.1000	.99380	.99360	.99350	.99390	.99340	.99340	.99340
1.198	8.582	2.3050	2010.1000	.99330	.99350	.99280	.99330	.99400	.99400	.99400
1.196	10.044	2.3070	2009.3999	.99400	.99360	.99370	.99420	.99400	.99400	.99400
1.195	12.925	2.2900	2010.1000	.99450	.99350	.99350	.99350	.99410	.99410	.99410
1.192	15.058	2.3270	2008.5000	.99340	.99350	.99350	.99350	.99330	.99330	.99330
1.198	17.314	2.3350	2010.8000	.99146	.99220	.99210	.99250	.99270	.99270	.99270
1.191	19.475	2.3240	2008.6000	.99110	.99170	.99120	.99200	.99140	.99140	.99140
1.191	21.599	2.3160	2011.5000	.98860	.98970	.98860	.99070	.99080	.99080	.99080
1.188	23.702	2.3280	2010.8000	.98450	.98690	.98480	.98670	.98750	.98750	.98750
1.182	25.791	2.3480	2010.8000	.97800	.98180	.97800	.98530	.98790	.98790	.98790
GRADIENT		.00936	-16507	.00007	.00017	.00017	.00014	.00017	.00031	.00031

RUN NO. 13/ 0 RVL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
1.399	.040	2.2820	2046.8000	.99820	.99330	.99380	.99480	.99860	.99880	.99880
1.400	2.117	2.2640	2046.8000	.96030	.95320	.95740	.95740	.99950	.99950	.99950
1.397	4.235	2.3160	2046.8000	.96100	.95660	.95790	.96030	.96050	.96050	.96050
1.395	6.368	2.3620	2047.5000	.96200	.95900	.95610	.95910	.95160	.95160	.95160
1.396	8.524	2.3250	2047.5000	.96160	.95750	.95690	.96060	.96400	.96400	.96400
1.394	10.690	2.3260	2047.5000	.96230	.95790	.95690	.96070	.96400	.96400	.96400
1.396	12.845	2.3130	2047.5000	.96100	.95730	.95950	.96110	.96400	.96400	.96400
1.397	15.003	2.3350	2047.5000	.95940	.95720	.95950	.96170	.96400	.96400	.96400
1.395	17.286	2.3400	2046.8000	.95690	.95330	.95100	.95300	.95180	.95180	.95180
1.395	19.523	2.3250	2047.5000	.95370	.95970	.95840	.95750	.95390	.95390	.95390
1.388	21.637	2.3500	2047.5000	.95080	.94810	.94750	.95210	.95780	.95780	.95780
1.388	23.745	2.3180	2046.8000	.94780	.94490	.94500	.95210	.95440	.95440	.95440
1.385	25.745	2.3600	2049.7000	.94190	.93970	.93670	.94773	.95440	.95440	.95440
GRADIENT		.00859	.00002	.00067	.00079	.00087	.00131	.00045	.00029	.00029

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PARAMETRIC DATA

BETA = 2.000
ELEVON = .000
BDFLAP = .000

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER * RAKES

REFERENCE DATA

SREF = 2590.0000 SO.FT.
LREF = 474.8000 IN.
BREF = 936.8800 IN.
SCALE = .0500

RUN NO. 3124 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
1.996	-0.074	1.18280	1843.10001	.73580	.71400	.68420	.71590	.74410	.76570	.05550
1.995	1.975	1.18340	1843.10001	.73710	.71850	.68670	.71980	.74700	.76800	.05520
1.996	4.041	1.18150	1842.39999	.73950	.72170	.69210	.72110	.74870	.76950	.05510
1.996	8.099	1.18080	1841.70000	.74210	.72480	.69790	.72600	.75100	.77090	.05530
1.995	8.167	1.18130	1842.39999	.74430	.72950	.70150	.72740	.75120	.77050	.05520
1.996	10.215	1.18250	1843.10001	.74580	.73090	.70880	.72940	.75260	.76970	.05530
1.995	12.238	1.18390	1842.39999	.74270	.72950	.70860	.73470	.75300	.77130	.05510
1.996	14.341	1.18510	1842.39999	.74170	.72810	.70930	.73190	.75590	.77100	.05500
1.995	16.477	1.18870	1841.70000	.73930	.72650	.70980	.73840	.75910	.76990	.05530
1.996	18.564	1.19000	1842.39999	.73540	.72350	.69870	.73740	.75400	.76850	.05590
1.995	20.582	1.19600	1843.10001	.73230	.71950	.69550	.73290	.75020	.76560	.05550
1.996	22.659	1.19760	1842.39999	.72570	.71380	.68960	.72570	.74850	.76250	.05480
1.995	24.721	1.20490	1841.70000	.71780	.70580	.68170	.72530	.74590	.76030	.05330
1.996	25.743	1.20840	1842.39999	.71260	.70130	.67790	.72480	.74390	.75850	.05280
1.995		-.00032	-.17373	.00054	.00190	.00195	.00128	.00113	.00096	.00015

RUN NO. 319/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
2.250	-0.074	1.03080	2059.60001	.62960	.60420	.56050	.58900	.62890	.65590	.04160
2.250	1.899	1.03000	2059.60001	.63200	.60650	.56850	.59280	.63230	.65930	.04010
2.250	3.354	1.02950	2059.60001	.63390	.61180	.57050	.59610	.63330	.66130	.03970
2.250	6.004	1.02980	2059.60004	.63730	.61930	.57980	.60180	.63750	.66410	.03940
2.250	8.059	1.02980	2059.60001	.63920	.61930	.58400	.60940	.64350	.66500	.03970
2.250	10.108	1.03070	2059.60001	.64150	.62240	.59210	.61050	.64490	.66530	.03950
2.250	12.142	1.03180	2059.60001	.64150	.62240	.59560	.61390	.64490	.66530	.03950
2.250	14.211	1.03070	2059.60001	.64040	.62520	.59350	.61690	.64510	.66420	.03950
2.250	16.343	1.03560	2059.60001	.63920	.62110	.59370	.61840	.64320	.66170	.03940
2.250	18.418	1.04090	2059.60001	.63730	.61620	.58520	.61540	.63910	.65910	.03970
2.250	20.432	1.04280	2059.60001	.63150	.60910	.57960	.61020	.63590	.65520	.03920
2.250	22.457	1.04720	2059.60001	.62420	.60280	.57338	.60720	.63350	.65220	.03820
2.250	24.553	1.05260	2059.60001	.61900	.59630	.56700	.60140	.63140	.65130	.03760
2.250	25.573	1.05690	2059.60001	.61160	.58630	.55700	.60100	.63140	.65130	.03760
2.250		-.00032	.00002	.00107	.00180	.00248	.00176	.00109	.00144	.00015

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 50.FT. XPRP = 1076.6800 IN. X0
LREF = 474.8008 IN. YMRP = .0000 IN. Y0
BREF = 936.6903 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0500

(EE7506)

PARAMETRIC DATA

BETA = 2.030 ELEVON = .000
AIRLON = .000

RUN NO. 4444 Q RV/L = 2.01 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
2.499	.111	2.10290	1489.50000	.52458	.49730	.45066	.48950	.53750	.56760	.55500
2.499	2.187	2.09890	1490.25000	.52650	.50060	.45440	.49400	.54000	.56860	.55500
2.499	4.172	2.08090	1490.20000	.52950	.50820	.46080	.49600	.54180	.57270	.55700
2.499	6.217	2.07310	1490.20000	.53170	.50830	.46660	.50110	.54900	.57820	.56200
2.499	8.250	2.06700	1490.20000	.53340	.51230	.47090	.50650	.55600	.57730	.56300
2.499	10.294	2.06310	1490.20000	.53590	.51490	.47550	.51330	.56460	.57530	.56300
2.499	12.348	2.06000	1490.20000	.53550	.51720	.48370	.51850	.56500	.57520	.56300
2.499	14.380	2.05780	1490.20000	.53530	.51680	.48700	.52310	.56500	.57520	.56300
2.499	16.426	2.05740	1490.20000	.53400	.51470	.48630	.52260	.56500	.57520	.56300
2.499	18.467	2.05870	1490.20000	.52630	.50460	.48120	.52100	.54900	.57120	.55910
2.499	20.512	2.06250	1490.20000	.51990	.50460	.47800	.52100	.54740	.56660	.55910
2.499	22.567	2.06640	1490.20000	.50580	.49860	.47040	.51730	.54330	.56920	.55910
2.499	24.602	2.07170	1490.20000	.50070	.48680	.45570	.51480	.54180	.56920	.55910
2.499	25.636	2.07530	1490.20000	.50070	.48680	.45570	.51480	.54180	.56920	.55910
2.499	GRADIENT	- .00342	.17310	.00219	.00231	.00231	.00160	.00106	.00123	.00123

RUN NO. 4371 Q RV/L = 1.97 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
3.040	.075	2.23050	2018.50000	.33920	.31069	.26510	.30830	.35740	.38730	.37400
3.040	2.139	2.22000	2018.30000	.34230	.31400	.26780	.30950	.35920	.38920	.37400
3.040	4.158	2.21070	2018.50000	.34540	.32040	.27300	.31240	.36030	.39030	.37400
3.040	6.168	2.20230	2018.50000	.34810	.32310	.28060	.31770	.36330	.39330	.37400
3.040	8.195	2.19520	2018.50000	.34980	.32500	.28450	.32010	.36630	.39630	.37400
3.040	10.249	2.18950	2017.10001	.35000	.32690	.28660	.32340	.36700	.39700	.37400
3.040	12.257	2.18550	2016.39999	.34790	.32110	.28910	.31790	.36150	.39150	.37400
3.040	14.295	2.18550	2018.50000	.34790	.32110	.28910	.31790	.36150	.39150	.37400
3.040	16.331	2.18550	2017.10001	.34120	.32550	.29870	.34050	.36900	.39800	.37400
3.040	18.412	2.18790	2017.80000	.33730	.32190	.29440	.33870	.36590	.39590	.37400
3.040	20.447	2.19380	2017.80000	.33090	.31640	.29950	.33210	.35930	.38930	.37400
3.040	22.490	2.20000	2017.80000	.32400	.30940	.28530	.32620	.35260	.38660	.37400
3.040	25.505	2.20320	2017.80000	.32020	.30550	.28530	.32020	.34860	.38200	.37400
3.040	GRADIENT	- .0085	.00133	.00152	.00242	.00208	.00110	.00071	.00089	.00089

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(BETROE) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 956.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 434/ 0. RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QNPST
3.499	-1.179	2.25330	2669.20001	.23400	.20763	.16880	.20150	.24410	.27090	.00550	300.41000
3.499	1.866	2.24100	2663.20001	.23740	.21241	.17220	.20320	.24520	.27280	.00550	300.41000
3.499	3.886	2.23470	2658.50000	.23950	.21721	.17610	.20510	.24700	.27480	.00520	300.33000
3.499	5.894	2.22000	2659.20001	.24040	.21923	.18100	.20690	.24980	.27580	.00510	300.41000
3.499	7.923	2.21990	2659.20001	.24250	.22263	.18580	.21300	.25260	.27690	.00510	300.41000
3.499	9.943	2.21410	2657.79999	.24320	.22380	.19100	.21930	.25500	.27830	.00490	300.25000
3.499	11.982	2.20910	2659.89999	.24290	.22610	.19610	.22370	.25610	.27910	.00460	300.49000
3.499	14.015	2.20560	2668.50000	.24110	.22630	.19800	.22610	.25600	.27950	.00450	300.33000
3.499	16.030	2.20800	2669.20001	.23980	.22460	.19860	.22810	.25630	.27900	.00440	300.41000
3.499	18.065	2.20830	2669.89999	.23530	.22140	.19880	.22960	.25530	.27710	.00450	300.33000
3.499	20.103	2.20850	2669.89999	.23100	.21780	.19790	.22880	.25370	.27520	.00450	300.49000
3.499	22.128	2.21520	2667.79999	.22650	.21370	.19520	.22610	.25110	.27320	.00420	300.25000
3.499	24.173	2.22330	2669.89999	.22170	.20830	.19070	.22290	.24730	.26920	.00450	300.49000
3.499	25.184	2.23390	2667.79999	.21830	.20550	.18850	.22130	.24500	.26770	.00450	300.25000
3.499				.00135	.00236	.00180	.00103	.00071	.00075	.00007	-0.0964

GRADIENT

(BETRO) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRLON = .000 EDFLAP = -7.170

TABULATED DATA - QAL61 (ARC 11-97-87-094)
ARC 11-97-87-094 QAL61 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RUN NO. 23/ 0 RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.597	.108	5.34530	2630.29999	1.00030	1.00040	1.00030	1.00030	1.00010	1.00010	.98760	515.34000
.597	2.153	5.37120	2631.00000	1.00030	1.00012	1.00050	1.00020	1.00010	1.00020	.98840	515.35000
.597	4.224	5.37910	2631.00000	1.00040	1.00052	1.00050	1.00020	1.00040	1.00080	.98870	515.34000
.598	6.310	5.39020	2631.79999	1.00040	1.00010	1.00050	1.00010	1.00010	1.00010	.98840	517.69000
.597	8.400	5.38740	2631.79999	1.00040	1.00060	1.00050	1.00030	1.00060	1.00060	.98900	515.35000
.597	10.522	5.37820	2631.79999	1.00040	1.00070	1.00050	1.00030	1.00050	1.00050	.98930	516.53000
.596	12.645	5.37300	2631.79999	1.00040	1.00080	1.00050	1.00040	1.00050	1.00030	.98970	514.12000
.596	14.759	5.36710	2632.50000	1.00050	1.00040	1.00050	1.00020	1.00070	1.00040	.98960	515.38000
.595	16.868	5.36910	2632.50000	1.00050	1.00070	1.00050	1.00040	1.00020	1.00030	.98990	518.29000
.599	18.978	5.37010	2632.50000	1.00050	1.00080	1.00050	1.00040	1.00020	1.00030	.98980	515.95000
.597	21.080	5.36090	2631.79999	1.00050	1.00070	1.00050	1.00040	1.00020	1.00030	.98970	515.96000
.597	23.164	5.36600	2632.50000	1.00050	1.00080	1.00050	1.00040	1.00020	1.00030	.98980	519.96000
.597	25.288	5.40340	2632.50000	1.00050	1.00080	1.00050	1.00040	1.00020	1.00030	.98990	519.96000
	GRADIENT	.00820	.16943	.00002	.00002	.00005	.00002	.00007	.00017	.00027	.4609

RUN NO. 20/ 0 RV/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.899	.080	5.39560	2112.80001	1.00040	1.00030	1.00070	1.00040	1.00020	1.00090	.98870	707.56000
.900	2.171	5.39620	2115.39999	1.00040	1.00060	1.00050	1.00070	1.00090	1.00090	.98860	709.10000
.901	4.284	5.40850	2115.39999	1.00040	1.00080	1.00050	1.00070	1.00090	1.00090	.98890	709.94000
.901	6.401	5.41170	2116.60001	1.00040	1.00030	1.00030	1.00020	1.00050	1.00050	.98910	708.42000
.894	8.518	5.40540	2116.20001	1.00040	1.00050	1.00050	1.00050	1.00050	1.00050	.98920	704.63000
.903	10.653	5.40310	2115.39999	1.00040	1.00020	1.00050	1.00030	1.00030	1.00020	.98890	710.76000
.893	12.787	5.40240	2114.70001	1.00040	1.00080	1.00050	1.00030	1.00030	1.00010	.98950	708.97000
.899	14.917	5.42460	2114.70001	1.00040	1.00080	1.00050	1.00030	1.00010	1.00020	.98840	707.31000
.899	17.074	5.43600	2116.89999	1.00040	1.00080	1.00050	1.00030	1.00010	1.00020	.98810	709.22000
.896	19.222	5.45000	2114.70001	1.00040	1.00080	1.00050	1.00030	1.00010	1.00020	.98950	706.01000
.893	21.345	5.45420	2114.60000	1.00040	1.00080	1.00050	1.00030	1.00010	1.00020	.98910	702.91000
.902	23.441	5.45100	2117.60001	1.00040	1.00080	1.00050	1.00030	1.00010	1.00020	.98880	711.79000
.899	25.453	5.45220	2114.78001	1.00040	1.00080	1.00050	1.00030	1.00010	1.00020	.98840	700.33000
	GRADIENT	.00545	.66477	.00012	.00012	.00002	.00002	.00002	.00007	.00005	.5875

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - OAL61 (ARC 11-97-87-094)
ARC 11-97-87-094 OAL61 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 14/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.08

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.199	.084	5.38440	2010.80000	.99280	.99270	.99190	.98280	.98320	.98350	.98130	835.49000
1.201	2.182	5.42360	2010.80000	.99280	.99280	.99210	.98290	.98330	.98370	.98600	836.27000
1.199	4.304	5.41920	2010.10000	.99360	.99280	.99230	.98280	.98360	.98370	.98910	835.12000
1.196	6.446	5.41170	2010.80000	.99360	.99370	.99290	.98350	.98430	.98440	.98060	834.70000
1.197	8.606	5.41240	2010.10000	.98360	.98340	.98290	.98350	.98410	.98440	.98200	834.53000
1.197	10.780	5.39100	2011.50000	.99260	.99300	.99240	.98350	.98400	.98450	.98170	835.28000
1.196	12.927	5.39680	2010.80000	.99230	.99270	.99270	.98350	.98370	.98430	.98260	834.70000
1.197	15.088	5.41750	2011.50000	.99010	.99050	.98170	.98250	.98310	.98340	.98220	835.08000
1.193	17.249	5.45190	2009.39999	.98980	.98950	.98110	.98270	.98370	.98400	.98340	832.95000
1.191	19.420	5.46300	2010.80000	.98790	.98820	.98990	.98110	.98230	.98340	.98250	832.95000
1.193	21.531	5.46530	2010.10000	.98490	.98610	.98680	.98160	.98340	.98260	.98260	833.35000
1.192	23.676	5.47900	2010.10000	.97750	.98020	.98190	.98010	.98200	.98210	.98160	833.13000
1.185	25.761	5.49450	2011.50000	.97070	.97440	.97410	.98660	.98980	.98980	.98990	831.84000
	GRADIENT	.00823	-.16622	.00019	.00002	.00009	-.00000	.00009	.00005	.00185	-.08658

RUN NO. 11/ 0 RN/L = 4.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.403	.065	5.39060	2047.50000	.99240	.94700	.94940	.96170	.96540	.96960	.97770	882.83000
1.402	2.195	5.46540	2049.00000	.99280	.94800	.94800	.96210	.96450	.96860	.97240	883.42000
1.399	4.262	5.43010	2047.50000	.99480	.95040	.95320	.96510	.96790	.97150	.97200	882.75000
1.398	6.395	5.41690	2047.50000	.99580	.95180	.95420	.96570	.96740	.97090	.97190	882.73000
1.395	8.544	5.42770	2047.50000	.99510	.95080	.95090	.96600	.96830	.97150	.97250	882.57000
1.395	10.710	5.40550	2048.29999	.99470	.95070	.95140	.96730	.96930	.97180	.97200	882.98000
1.396	12.850	5.39960	2048.29999	.99320	.94620	.95180	.96650	.96880	.97190	.97220	883.07000
1.393	15.000	5.42630	2048.29999	.94980	.94660	.94540	.96770	.96940	.97200	.97190	882.92000
1.393	17.162	5.43920	2048.29999	.94740	.94390	.94500	.96710	.96840	.97200	.97140	882.83000
1.390	19.335	5.46330	2048.29999	.94350	.93990	.94080	.96710	.96840	.97140	.97040	883.61000
1.396	21.481	5.48180	2049.70000	.93850	.93530	.93390	.96320	.96510	.96790	.96870	882.78000
1.388	23.600	5.48690	2048.29999	.93420	.93130	.92720	.96150	.96480	.96790	.96630	882.35000
1.397	25.705	5.48450	2049.70000	.92710	.92420	.91690	.95960	.96330	.96650	.96530	881.87517
	GRADIENT	.00933	-.00213	.00057	.00081	.00091	.00061	.00060	.00046	-.00135	-.07517

(BE7R07) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA =
ALPHA =

BETA =
ALPHA =

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 301/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF1
1.556	.026	4.56670	1549.6000	.90130	.89580	.88630	.92230	.93060	.93680	.14720	659.32000
1.556	2.042	4.56610	1551.0000	.90390	.89760	.88800	.92210	.93140	.93730	.14710	659.92000
1.556	4.115	4.56310	1551.8000	.90690	.90000	.89230	.92390	.93348	.93830	.14700	660.22000
1.556	6.194	4.55990	1552.5000	.90730	.90200	.89480	.92560	.93420	.93990	.14750	660.52000
1.556	8.262	4.56200	1556.7000	.90970	.90590	.89720	.93060	.93750	.94320	.14640	662.33000
1.556	10.331	4.56110	1560.2000	.90730	.90390	.89530	.93003	.93610	.94130	.14810	663.83000
1.556	12.379	4.56860	1557.3999	.90460	.89960	.89380	.93163	.93700	.94150	.14590	665.63000
1.556	14.462	4.57190	1556.0000	.89890	.89220	.88260	.93250	.93750	.94140	.14090	665.90300
1.556	16.808	4.57840	1556.7000	.89400	.88440	.87210	.93071	.93500	.94210	.14080	662.33000
1.556	18.707	4.58310	1557.3999	.89200	.88590	.87500	.93091	.93780	.94200	.13850	662.63000
1.556	20.736	4.59160	1558.1000	.88530	.88220	.86960	.93150	.93780	.94200	.13550	663.93000
1.556	24.885	4.59620	1559.5000	.86780	.86460	.85350	.92670	.93030	.93350	.12820	663.53000
1.556	25.912	4.60640	1558.0000	.86720	.86240	.84910	.92580	.93010	.93330	.12460	662.10300
	GRADIENT	-.00087	.53752	.00137	.00103	.00132	.00132	.00064	.00037	-.00005	.21975

RUN NO. 310/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF1
1.750	-.077	4.75100	1655.7000	.81780	.80620	.79050	.85440	.87030	.88150	.10250	666.67000
1.750	1.916	4.74770	1655.7000	.81870	.80940	.79280	.85770	.87180	.88270	.10230	666.67000
1.750	3.932	4.74890	1655.7000	.82260	.81190	.79670	.85920	.87420	.88450	.10350	666.67000
1.750	6.056	4.74940	1655.3999	.82340	.81510	.80070	.86110	.87450	.88460	.10260	666.96000
1.750	8.127	4.75090	1655.7000	.82470	.81630	.80050	.86500	.87730	.88620	.10380	666.67000
1.750	10.190	4.74920	1655.7000	.82330	.81540	.80320	.86630	.87760	.88730	.10290	666.67000
1.750	12.232	4.75260	1655.0000	.82280	.81840	.80330	.86900	.87810	.88760	.10030	666.39000
1.750	14.317	4.75780	1655.3999	.81440	.80760	.79050	.86910	.87760	.88620	.09810	666.65000
1.750	16.459	4.76020	1655.7000	.81390	.80530	.78630	.86870	.87500	.88500	.09410	666.39000
1.750	18.547	4.76680	1655.0000	.81390	.80330	.78010	.86540	.87350	.88160	.09680	666.96000
1.750	20.574	4.76810	1655.0000	.80680	.79860	.78100	.86610	.86780	.87500	.08820	666.96000
1.750	24.717	4.78240	1656.3999	.78730	.77790	.75520	.86000	.86680	.87550	.08530	666.67000
1.750	25.748	4.78120	1655.7000	.77880	.77150	.75200	.86000	.86680	.87550	.08027	666.67000
	GRADIENT	-.00053	-.00001	.00118	.00140	.00153	.00118	.00096	.00071	.00027	.00003

PAGE : 351

(BE7R07) 1.02 AUG 76 11

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AULRON = .000

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 311/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT	PT9/PT
1.996	-.017	4.22740	1834.0000	.70170	.68230	.65720	.73910	.76640	.78500	.06580	.78500	.06580
1.996	1.974	4.22430	1831.10001	.76770	.68630	.65990	.74130	.76880	.78680	.06390	.78680	.06390
1.996	4.036	4.22380	1831.10001	.70860	.68430	.68430	.74320	.76850	.78740	.06460	.78740	.06460
1.996	6.098	4.22310	1831.10001	.71110	.69450	.68830	.74730	.77150	.78970	.06390	.78970	.06390
1.996	8.157	4.22330	1833.20000	.71300	.69800	.67210	.75110	.77440	.79160	.06420	.79160	.06420
1.996	10.215	4.22460	1834.70000	.71210	.69810	.67530	.75420	.77520	.79210	.06360	.79210	.06360
1.996	12.255	4.22460	1834.70000	.71430	.69810	.67790	.75620	.77710	.79270	.05040	.79270	.05040
1.996	14.336	4.22670	1839.60001	.71200	.69780	.67360	.75730	.77550	.79160	.05980	.79160	.05980
1.996	16.475	4.22930	1845.30000	.70900	.69610	.66780	.75770	.77480	.78980	.05890	.78980	.05890
1.996	18.555	4.23360	1843.89999	.70360	.69020	.66210	.75851	.77220	.78560	.05820	.78560	.05820
1.996	20.577	4.23730	1841.70000	.69959	.68650	.66110	.75770	.77100	.78410	.05570	.78410	.05570
1.996	22.654	4.24270	1843.89999	.69230	.67870	.65320	.75620	.76840	.78320	.05310	.78320	.05310
1.996	24.713	4.24870	1843.10001	.68160	.66670	.64290	.75230	.76540	.78180	.05290	.78180	.05290
1.996	25.736	4.25180	1842.39998	.67540	.66070	.63660	.75300	.76880	.78180	.05290	.78180	.05290
		-.00088	-.71140	.00121	.00220	.00175	.00101	.08052	.00059	.00024	.00024	.00024

RUN NO. 320/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT	PT9/PT
2.250	-.075	4.07550	2059.60001	.59620	.56970	.53390	.62510	.66370	.68840	.04190	.68840	.04190
2.250	1.900	4.07410	2059.89999	.60070	.57490	.53880	.62740	.66590	.68980	.04070	.68980	.04070
2.250	3.934	4.06880	2059.60001	.60410	.57990	.54300	.62910	.66600	.69140	.04060	.69140	.04060
2.250	6.005	4.07090	2059.60001	.60530	.58390	.54630	.63550	.67080	.69420	.04080	.69420	.04080
2.250	8.059	4.07180	2058.89999	.60950	.58720	.55350	.64110	.67480	.69740	.03950	.69740	.03950
2.250	10.107	4.06760	2059.60001	.61080	.59190	.55200	.64450	.67590	.69620	.03800	.69620	.03800
2.250	12.139	4.07270	2058.89999	.61230	.59360	.55430	.64740	.67610	.69700	.03510	.69700	.03510
2.250	14.212	4.07440	2058.89999	.61270	.59330	.55520	.65080	.67680	.69670	.03580	.69670	.03580
2.250	16.339	4.07780	2059.60001	.61200	.59150	.55500	.65020	.67610	.69510	.03450	.69510	.03450
2.250	18.413	4.08130	2058.89999	.60420	.58780	.55500	.65150	.67610	.69340	.03450	.69340	.03450
2.250	20.426	4.08360	2059.60001	.59710	.58080	.54970	.65200	.67410	.69120	.03300	.69120	.03300
2.250	22.494	4.08840	2058.89999	.59070	.57410	.54300	.64840	.67180	.68800	.03230	.68800	.03230
2.250	24.545	4.09400	2058.89999	.58020	.56360	.53560	.64500	.67100	.68600	.03190	.68600	.03190
2.250	25.565	4.09700	2058.89999	.57260	.55700	.52720	.64250	.66790	.68500	.03190	.68500	.03190
		-.00187	.00229	.00196	.00253	.00226	.00099	.00057	.00074	.00032	.00032	.00032

TABULATED DATA - 0A161 (ARC 11-97-87-09H)

ARC 11-97-87-09H 0A161 ORBITIER + RAKES

(BETR07) (02 AUG 78)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSS)
2.499	.089	5.18610	1490.20000	.48150	.45480	.41760	.52670	.57390	.59570	.02680	381.97000
2.499	2.128	5.15910	1490.20000	.48620	.45950	.42200	.52930	.57590	.60320	.02600	381.97000
2.499	4.178	5.13610	1490.20000	.48890	.46310	.42680	.53110	.57710	.60520	.02530	381.97000
2.499	6.242	5.11880	1490.20000	.49300	.46910	.43100	.53480	.58060	.60690	.02550	381.97000
2.499	8.248	5.10470	1490.20000	.49320	.47330	.43620	.54290	.58400	.60910	.02470	381.97000
2.499	10.294	5.09540	1490.20000	.49780	.47790	.44360	.54730	.58550	.61050	.02320	381.97000
2.499	12.358	5.08820	1490.20000	.49400	.47770	.44570	.55110	.58640	.61140	.02260	381.97000
2.499	14.383	5.08640	1490.20000	.49490	.47890	.44790	.55440	.58910	.61180	.02140	381.97000
2.499	16.421	5.08820	1490.20000	.49490	.47890	.44790	.55440	.58910	.61030	.02150	381.97000
2.499	18.454	5.09410	1490.20000	.48920	.47410	.44100	.55548	.58450	.60920	.02070	381.97000
2.499	20.513	5.10490	1490.20000	.48250	.46700	.43460	.55363	.58170	.60440	.02030	381.97000
2.499	22.557	5.11770	1490.20000	.47430	.46000	.42860	.55210	.57910	.60100	.02080	381.97000
2.499	24.586	5.13380	1490.20000	.46920	.45360	.42320	.55060	.57840	.60020	.02070	381.97000
2.499	26.631	5.14740	1490.20000	.45920	.44510	.42320	.55060	.57840	.60020	.02070	381.97000
2.499	GRADIENT	-.01225	-.03000	.00181	.00233	.00226	.00108	.00078	.00135	.00037	-.00000

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSS)
3.040	.096	5.34900	2018.50000	.29530	.26860	.23510	.33880	.38890	.41610	.01110	335.06000
3.040	2.152	5.32410	2017.10000	.29930	.27300	.23910	.33980	.39150	.41880	.01050	335.06000
3.040	4.170	5.30100	2017.80000	.30470	.27780	.24230	.34320	.39230	.42090	.01030	335.06000
3.040	6.207	5.28370	2018.50000	.30880	.28190	.24520	.34560	.39420	.42190	.01030	335.06000
3.040	8.224	5.26870	2017.80000	.30960	.28730	.25120	.35260	.39790	.42470	.01000	335.06000
3.040	10.250	5.25980	2018.50000	.31130	.28970	.25560	.35810	.39880	.42630	.00950	335.06000
3.040	12.321	5.25170	2017.80000	.31260	.29290	.26030	.36270	.40050	.42730	.00940	335.06000
3.040	14.357	5.24940	2018.50000	.31300	.29410	.26200	.36570	.40200	.42800	.00900	335.06000
3.040	16.394	5.25040	2018.50000	.31040	.29360	.26150	.36570	.40140	.42690	.00890	335.06000
3.040	18.430	5.25650	2018.50000	.30880	.29110	.26150	.36740	.40090	.42660	.00880	335.06000
3.040	20.450	5.26800	2018.50000	.30800	.28640	.26000	.36740	.40090	.42550	.00860	335.06000
3.040	22.464	5.28190	2018.50000	.29390	.28030	.25650	.36440	.39630	.42250	.00840	335.06000
3.040	24.501	5.29440	2017.80000	.28690	.27280	.25250	.36230	.39400	.41890	.00830	335.06000
3.040	26.523	5.30870	2018.50000	.28350	.26850	.24920	.36020	.39150	.41540	.00840	335.06000
3.040	GRADIENT	-.01178	-.03000	.00231	.00226	.00177	.00103	.00084	.00118	-.00020	-.00000

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITTER + RAKES

(BETR07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.800
AIRLON = .000
ELEVON = .000
BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.8800 IN.
SCALE = .0300

RUN NO. 435/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
3.499	-1.93	5.47560	2682.00000	.19490	.17220	.14620	.23100	.27490	.29990	.00590	.301.84000
3.499	1.938	5.44880	2682.00000	.19860	.17540	.14770	.23010	.27550	.30220	.00560	.301.84000
3.499	3.856	5.42960	2679.79999	.20260	.17830	.15100	.23280	.27780	.30400	.00540	.301.84000
3.499	5.831	5.40910	2682.00000	.20520	.18300	.15330	.23620	.27960	.30510	.00530	.301.84000
3.499	7.913	5.39290	2679.79999	.20760	.18860	.15810	.24050	.28140	.30690	.00520	.301.84000
3.492	9.949	5.38160	2682.00000	.20920	.19070	.16150	.24680	.28368	.30850	.00490	.301.84000
3.499	11.979	5.37640	2679.79999	.20970	.19270	.16310	.25060	.28490	.31050	.00470	.301.84000
3.499	14.010	5.37610	2682.00000	.20988	.19360	.16390	.25270	.28580	.31050	.00450	.301.84000
3.499	16.029	5.37460	2680.80001	.20938	.19430	.16700	.25430	.28590	.31030	.00460	.301.84000
3.499	18.068	5.38210	2679.79999	.20478	.19260	.16700	.25390	.28370	.30860	.00460	.301.84000
3.499	20.100	5.39070	2682.00000	.20080	.18890	.16610	.25390	.28110	.30550	.00460	.301.84000
3.499	22.131	5.40290	2669.60001	.19600	.18360	.16400	.25170	.27780	.30390	.00460	.301.84000
3.499	24.167	5.42230	2679.79999	.19010	.17790	.16090	.24890	.27610	.29920	.00440	.301.84000
3.499	25.177	5.43320	2680.60001	.18760	.17490	.15810	.24740	.27610	.29920	.00440	.301.84000
3.499	GRADIENT	-0.1139	-54.284	.00190	.00151	.00119	.00044	.00072	.00101	.00012	.00322

ARC 11-97-87-094 0A161 ORBITTER + TUFTS

(BETR08) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000
AIRLON = .000
ELEVON = .000
BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.8800 IN.
SCALE = .0300

RUN NO. 98/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
3.497	1.93	-4.93990	2605.60001	.74650	.74590	.74550	.74610	.74620	.74670	.74140	.510.22000
3.497	4.203	-4.94460	2606.29999	.74530	.74500	.74580	.74530	.74560	.74570	.74400	.510.24000
3.497	8.368	-4.95480	2606.29999	.74520	.74500	.74570	.74530	.74560	.74580	.74420	.509.65000
3.497	10.475	-4.91608	2607.00000	.74500	.74500	.74500	.74490	.74490	.74510	.74488	.510.25000
3.497	12.587	-4.88530	2607.00000	.74390	.74500	.74520	.74430	.74490	.74390	.74520	.510.25000
3.497	14.692	-4.87890	2607.70001	.74130	.74150	.74150	.74120	.74210	.74160	.74350	.510.24000
3.497	16.795	-4.88310	2607.70001	.73930	.73950	.73950	.73900	.73930	.73870	.74160	.510.24000
3.497	21.015	-4.90826	2607.70001	.73300	.73320	.73310	.73260	.73290	.73310	.73770	.510.26000
3.497	GRADIENT	-0.0118	1.7241	.00030	.00062	.00005	.00012	.00015	.00025	.00084	.00493

1, 02 AUG 76 23 11

18E7R081

PARAMETRIC DATA:

BETA	=	-5.000	ELEVON	=	.000
ALLRON	=	.000	BDCLAP	=	-7.170

BETA	=	-5.000	ELEVON	=	.000
ALLRON	=	.000	BDCLAP	=	-7.170

TABULATED DATA - 0A16:1 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + TUFTS

REFERENCE DATA

	2690.0000	SQ. FT.	XMRP	1075.6800	IN. X0
SREF					
LREF	74.8000	IN.	YMRP	.0000	IN. Y0
BREF	935.6800	IN.	ZMRP	375.0000	IN. Z0
SCAF		.0300			

	2690.0000	SQ. FT.	XMRP	1075.6800	IN. X0
SREF					
LREF	74.8000	IN.	YMRP	.0000	IN. Y0
BREF	935.6800	IN.	ZMRP	375.0000	IN. Z0
SCAF		.0300			

	2690.0000	SQ. FT.	XMRP	1075.6800	IN. X0
SREF					
LREF	74.8000	IN.	YMRP	.0000	IN. Y0
BREF	935.6800	IN.	ZMRP	375.0000	IN. Z0
SCAF		.0300			

	2690.0000	SQ. FT.	XMRP	1075.6800	IN. X0
SREF					
LREF	74.8000	IN.	YMRP	.0000	IN. Y0
BREF	935.6800	IN.	ZMRP	375.0000	IN. Z0
SCAF		.0300			

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF
.796	.117	-4.95780	2186.20001	.59390	.59470	.59430	.59560	.59430	.59420	.75420	638.70000
.798	4.239	-4.95140	2187.50001	.59430	.59430	.59490	.59330	.59520	.59490	.69470	630.72000
.797	8.448	-4.94380	2187.60001	.59300	.59480	.59430	.59340	.59410	.59350	.64610	639.76000
.798	10.577	-4.93760	2229.29999	.59150	.59200	.59290	.59330	.59270	.59460	.61770	652.81000
.796	12.699	-4.91630	2230.00000	.58650	.58930	.58950	.58760	.58850	.58870	.60620	651.86000
.798	14.828	-4.91790	2230.00000	.58540	.58520	.58440	.58270	.58350	.58350	.59640	653.34000
.798	16.948	-4.98730	2230.00000	.58260	.58270	.58180	.58140	.58070	.58830	.59910	651.88000
.795	21.232	-4.94380	2230.74002	.56910	.56900	.55980	.57160	.57100	.57010	.56070	650.46000
				.00010	-.00010	.00015	-.00035	.00022	.00017	-.01688	.49055

RUN NO. 110/0 RNAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	PT	PT11/PT	PT12/PT	PT13/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
850	1.6C	4.98770	2177.70001	55320	55280	55280	55250	55320	95390	54270	687.00000
851	4.248	4.99080	2177.70001	55440	55490	55390	55430	56490	55520	54810	687.50000
858	8.470	4.93900	2177.70001	55480	55530	55610	55620	55530	55520	55150	687.75000
848	10.866	4.95960	2177.70001	55190	55350	55330	55290	55270	55210	55230	687.75000
847	12.714	4.95660	2177.00000	55420	54890	54930	54930	54740	54850	55110	687.50000
846	14.846	4.95590	2177.70001	54520	54520	54550	54590	54380	54410	54810	687.50000
849	16.973	4.92950	2177.00000	54010	54010	54810	54920	53940	54080	54540	687.75000
848	21.262	4.93170	2179.39999	52340	52340	52240	52290	52340	52320	53560	683.45000
846	CRAPMENT	00167	00029	00029	00054	00027	00043	00041	00031	00130	1.1104

RUN NO. 111/0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PI	P11/PT	P12/PT	P13/PT	P14/PT	P15/PT	P16/PT	P17/PT	Q1/PS
900	1.05	-4.96556	2.088.61001	52080	52040	52050	52080	52190	52038	81490	699.89000
902	4.261	-4.97380	2.087.20001	52268	52210	52270	52110	52100	52050	68740	707.01000
904	8.474	-4.98334	2.087.89999	52140	52310	52320	52280	52280	52320	67660	699.83000
901	10.612	-4.94510	2.085.39399	51290	51360	51440	51500	51370	51370	700	72000
897	12.727	-4.92990	2.085.70001	51170	50950	51000	50910	50800	50840	54630	697.05000
897	14.881	-4.93440	2.086.39399	50650	50530	50640	50410	50240	50240	52730	697.12000
899	16.995	-4.94010	2.085.70001	50040	49980	49860	49910	49800	49880	51560	697.82000
902	21.204	-4.97930	2.087.20001	47570	47630	47630	47340	47430	47400	49820	701.43000
		-0.01902	-33585	00043	00041	00051	00037	00026	00005	03095	26949

(BE7R08) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-87-87-094)

ARC 11-87-87-094 0A161 ORBITER + TUFTS

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDELAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.950	.112	-4.97210	2056.00000	.46290	.46310	.46310	.46160	.46290	.46410	.45340	726.44000
.949	4.295	-4.97630	2055.29999	.46780	.46840	.46840	.46840	.46780	.46660	.46020	724.83000
.948	8.519	-4.95960	2056.00000	.46880	.46940	.46940	.46350	.46380	.46520	.46300	725.57000
.947	10.652	-4.95620	2056.00000	.46230	.46270	.46190	.46060	.46110	.46040	.46300	724.52000
.946	12.789	-4.94230	2055.29999	.45720	.45810	.45870	.45950	.45930	.45980	.46150	724.06000
.945	14.929	-4.93310	2056.00000	.44920	.44990	.44860	.44870	.44960	.44780	.45620	723.75000
.944	17.075	-4.94750	2055.29999	.44570	.44400	.44400	.44400	.44340	.44120	.43000	723.67000
.943	21.367	-4.94430	2055.00000	.41720	.41580	.41580	.41410	.41390	.41500	.43470	724.91000
.942	GRADIENT	-.00101	-.16816	.00113	.00118	.00127	.00163	.00104	.00060	.00163	-.38678

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.983	.120	-4.97160	2067.39999	.41950	.41910	.42178	.41820	.41770	.41710	.42790	753.66000
.979	4.295	-4.96580	2064.50000	.42540	.42330	.42490	.42570	.42360	.42400	.42700	749.98000
.983	8.550	-4.95930	2066.79999	.41560	.41950	.41680	.41680	.41520	.41660	.42280	754.20000
.981	10.692	-4.93310	2063.79999	.42100	.42390	.42130	.42280	.42080	.41998	.42260	750.63000
.976	12.834	-4.91560	2063.10001	.41980	.41880	.41930	.41840	.41780	.41790	.42250	747.57000
.980	14.956	-4.93250	2063.79999	.41310	.40940	.40880	.41240	.41000	.40890	.41700	750.26000
.978	17.144	-4.94320	2063.10001	.40830	.40540	.40840	.40770	.40670	.40550	.41290	748.31000
.979	21.471	-4.95360	2064.50000	.38690	.38610	.38610	.38870	.38570	.38590	.40120	749.60000
.978	GRADIENT	.00144	-.69457	.00141	.00101	.00077	.00180	.00141	.00165	.00022	-.288139

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.056	.123	-4.98830	2040.50000	.36270	.36180	.36090	.36070	.36090	.36100	.34040	784.25000
.049	4.301	-4.95880	2041.20000	.36100	.35860	.35798	.35900	.35710	.35740	.34750	783.95000
.047	8.566	-4.94610	2041.20000	.35700	.35420	.35580	.35650	.35610	.35530	.35060	782.69000
.049	10.716	-4.94380	2041.20000	.35300	.35110	.35300	.35210	.35180	.35190	.35140	783.64000
.049	12.871	-4.93310	2041.20000	.34980	.35180	.34910	.35070	.35060	.35040	.35070	783.95000
.048	15.041	-4.94120	2041.20000	.34520	.34630	.34710	.34620	.34520	.34520	.34610	783.32000
.048	21.535	-4.95660	2043.30000	.32620	.32720	.32670	.32650	.32650	.32650	.33650	782.40000
.045	GRADIENT	.08449	.16756	-.08041	-.00077	-.00062	-.00041	-.00091	-.00086	.00170	-.04787

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(BE7R08) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + TUFTS

PARAMETRIC DATA

BETA = -5.000 ELEVON = -0.000
AILRON = .000 BFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	RUN NO.	1314 0	RN/L = 4.24	GRADIENT INTERVAL = -5.004	5.00	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.100	1.21	-4.9890	2013.60001						.3310	.3310	.3310	.3310	.3310	.33080	.33570	798.71000
1.099	4.299	-4.97370	2013.20000						.33030	.33030	.33030	.33030	.33030	.33020	.33480	797.62000
1.097	8.584	-4.96200	2013.60001						.32480	.32480	.32480	.32480	.32480	.32410	.32950	797.32000
1.087	10.718	-4.94640	2012.20000						.32620	.32620	.32620	.32620	.32620	.32540	.32780	796.78000
1.097	12.672	-4.94280	2012.89999						.32650	.32650	.32650	.32650	.32650	.32570	.32758	797.19000
1.095	15.046	-4.95790	2012.89999						.32650	.32650	.32650	.32650	.32650	.32570	.32758	797.19000
1.095	17.208	-4.96420	2012.20000						.32020	.32020	.32020	.32020	.32020	.32030	.32880	795.54000
1.096	21.534	-4.97910	2014.30000						.30460	.30460	.30460	.30460	.30460	.30370	.31450	797.45000
	GRADIENT	.00366	-33510						-.00019	.00005	.00005	-.00010	-.00026	-.00014	-.00065	-26094

MACH	ALPHA	BETA	PT	RUN NO.	1387 0	RN/L = 4.25	GRADIENT INTERVAL = -5.004	5.00	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.149	1.09	-4.98060	2005.10000						.30770	.30770	.30770	.30770	.30810	.30810	.29940	815.95000
1.147	4.282	-4.96990	2003.70000						.30640	.30640	.30640	.30640	.30650	.30750	.30280	815.54000
1.147	8.593	-4.95110	2005.80000						.30080	.30080	.30080	.30080	.30080	.30080	.30080	815.39000
1.149	10.710	-4.94850	2005.10001						.29970	.29970	.29970	.29970	.29890	.29950	.29950	815.95000
1.156	12.863	-4.93650	2004.39999						.29750	.29750	.29750	.29750	.29810	.29790	.29940	815.03000
1.146	15.043	-4.95170	2005.10001						.29810	.29810	.29810	.29810	.29730	.29650	.29710	815.00000
1.146	17.225	-4.96410	2005.10001						.29440	.29440	.29440	.29440	.29470	.29470	.29030	815.46000
1.145	21.532	-4.97480	2007.20000						.28120	.28120	.28120	.28120	.28270	.28270	.00084	-07430
	GRADIENT	.00254	-33595						-.00046	-.00022	-.00022	-.00022	-.00036	-.00024	-.00084	-07430

MACH	ALPHA	BETA	PT	RUN NO.	1417 0	RN/L = 4.25	GRADIENT INTERVAL = -5.004	5.00	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.198	1.08	-4.98160	1998.70000						.27900	.27900	.27900	.27900	.27930	.27930	.30270	830.15000
1.199	4.277	-4.98350	1999.30000						.27950	.27950	.27950	.27950	.28010	.27950	.28320	830.87000
1.194	8.584	-4.95980	2000.89999						.27500	.27500	.27500	.27500	.27500	.27550	.28490	830.45000
1.199	10.720	-4.95640	1999.50000						.27280	.27280	.27280	.27280	.27300	.27340	.27920	830.48000
1.197	12.863	-4.94400	1999.50000						.27110	.27110	.27110	.27110	.27040	.26940	.27530	830.05000
1.196	15.033	-4.95980	1998.50000						.26810	.26810	.26810	.26810	.26850	.26940	.27230	829.88000
1.195	17.198	-4.96430	1999.50000						.26540	.26540	.26540	.26540	.26540	.26590	.26990	829.19000
1.189	21.518	-4.98200	2000.89999						.26170	.26170	.26170	.26170	.26310	.26340	.26530	828.92000
	GRADIENT	-.00048	19159						.00012	.00019	.00019	.00041	.00019	.00007	-.00232	-18441

(BE7R08) 1.02 AUG 76

PARAMETRIC DATA

BETA = -5.000
ATLON = .000
ELEVON = .000
BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2690.0000 SC.FT.
LREF = 474.8000 IN.
BREF = 936.6800 IN.
SCALE = .0300

XMRP = 1076.6800 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

RUN NO. 150/ 0 RN/L = 4.23 GRADIENT INTERVAL = 5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
1.289	0.36	-4.9240	2002.30000	.22920	.22890	.22930	.22890	.22850	.22850	.22450
1.300	4.252	-4.96650	2005.80000	.22910	.22870	.22940	.22970	.23043	.23043	.22650
1.293	8.517	-4.96050	2005.40001	.22840	.22860	.22790	.22860	.22758	.22758	.22720
1.295	10.667	-4.99030	2005.80000	.22490	.22530	.22480	.22450	.22530	.22460	.22610
1.294	12.827	-4.94320	2005.80000	.22330	.22260	.22340	.22400	.22370	.22370	.22470
1.295	14.993	-4.96960	2005.80000	.22170	.22190	.22120	.22100	.22190	.22190	.22320
1.295	17.156	-4.96800	2005.80000	.21930	.21970	.21950	.21960	.21980	.21930	.22190
1.283	21.480	-4.98790	2005.80000	.21510	.21490	.21510	.21470	.21530	.21490	.22160
	GRADIENT	.00034	.84214	-.06002	.00019	.00002	.00019	.00031	.00043	.00053

RUN NO. 151/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
1.403	0.77	-5.01760	2039.10001	.19010	.19010	.19050	.19010	.18970	.18980	.20420
1.405	4.224	-5.0320	2037.60001	.18960	.18920	.19000	.18970	.18970	.18980	.19810
1.400	8.487	-4.95590	2038.39999	.19060	.19020	.19050	.19030	.19050	.19040	.19300
1.400	10.633	-4.95570	2038.39999	.18840	.18860	.18890	.18840	.18820	.18930	.19130
1.400	12.784	-4.94320	2037.60001	.18550	.18530	.18510	.18490	.18520	.18490	.18840
1.398	14.948	-4.97440	2039.39999	.18450	.18520	.18490	.18490	.18520	.18470	.18760
1.399	17.110	-4.97070	2038.39999	.18350	.18381	.18390	.18310	.18350	.18330	.18560
1.399	21.443	-4.96750	2039.10001	.18190	.18260	.18290	.18160	.18160	.18100	.18370
	GRADIENT	.00035	.36171	-.00022	-.00022	.00012	-.00010	.00012	.00000	.00147

(BETROUS) 1-02 AUG 76

TABULATED DATA - OAI61 (ARC 11-97-87-09%)
ARC 11-97-87-09% OAI61 ORBITER + RUPTS

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIRRON =

PARAMETRIC DATA

-2.000 ELEVON
.000 BOFLAP

RUN NO. 98/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.585	.112	-1.89250	2590.7000	.74770	.74810	.74830	.74870	.74810	.74810	.74780
.585	.181	-1.85830	2598.3999	.74750	.74740	.74750	.74740	.74810	.74870	.74230
.587	.8.344	-1.88240	2607.7000	.74570	.74620	.74670	.74590	.74610	.74570	.74190
.587	10.432	-1.84670	2607.7000	.74560	.74480	.74630	.74490	.74600	.74670	.74350
.587	12.573	-1.84930	2607.7000	.74450	.74410	.74430	.74370	.74440	.74470	.74390
.587	14.877	-1.84930	2607.7000	.74170	.74170	.74220	.74180	.74190	.74210	.74300
.587	16.807	-1.87850	2607.7000	.73970	.73970	.73950	.73910	.73880	.73910	.74150
.585	21.048	-1.85080	2607.7000	.73030	.73010	.73050	.72980	.73040	.73010	.73690
	GRADIENT	.00544	.17201	-.00005	-.00017	-.00010	-.00032	.00000	.00015	.00114

RUN NO. 101/ 0

RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.796	.083	-1.89060	2226.5000	.59800	.59710	.59610	.59710	.59650	.59640	.59740
.797	4.246	-1.87190	2227.8999	.59300	.59480	.59660	.59770	.59750	.59690	.59280
.796	10.553	-1.85700	2229.2999	.59610	.59720	.59610	.59570	.59530	.59520	.59420
.797	12.587	-1.84760	2230.0000	.59080	.59350	.59270	.59320	.59330	.59300	.59300
.796	14.804	-1.84750	2229.2999	.59080	.59060	.59030	.59060	.59040	.59010	.59170
.796	16.953	-1.85770	2229.2999	.58420	.58350	.58370	.58250	.58360	.58350	.58820
.797	21.263	-1.83160	2229.2999	.57890	.57830	.57800	.57860	.57720	.57860	.58410
	GRADIENT	.00452	.33873	-.00073	-.00056	.00012	.00015	.00027	.00012	.00058

RUN NO. 109/ 0

RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.848	.005	-1.89440	2176.2999	.59700	.59620	.59680	.59500	.59390	.59360	.59120
.849	4.224	-1.86420	2177.7000	.59540	.59560	.59550	.59620	.59700	.59650	.59180
.847	8.142	-1.85920	2177.7000	.59550	.59560	.59520	.59450	.59550	.59560	.59730
.848	10.580	-1.85260	2177.7000	.59300	.59190	.59310	.59250	.59300	.59260	.59550
.848	12.708	-1.84980	2177.7000	.59430	.59490	.59490	.59600	.59470	.59560	.59970
.847	14.821	-1.83720	2177.7000	.59250	.59430	.59290	.59270	.59370	.59270	.59450
.848	15.992	-1.89650	2177.7000	.53780	.53880	.53680	.53500	.53770	.53320	.59110
.847	21.288	-1.87530	2178.3999	.52870	.52140	.52080	.52280	.52110	.52360	.59320
	GRADIENT	.00728	.33750	-.00014	-.00014	.00017	.00029	.00075	.00022	.00255

(1578091) 02 AUG 76

PARAMETRIC DATA

BETA = -2.008 ELEVON = .000
AILRON = -7.270

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0890 IN. YO
BREF = 936.6800 IN. ZMRP = 373.0880 IN. ZO
SCALE = .0300

RUN NO. 112/ 0 RNAL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.900	.087	-1.89340	2095.60001	.51660	.51590	.51570	.51750	.51780	.51670	.50700
.903	.251	-1.85128	2097.79999	.51840	.51690	.51900	.51910	.51840	.51920	.51190
.906	.460	-1.84760	2097.79999	.51860	.51770	.51670	.51680	.51780	.51880	.51450
.909	.586	-1.84620	2097.79999	.51620	.51590	.51300	.51450	.51460	.51430	.51450
.912	.723	-1.83550	2097.79999	.51040	.51080	.50960	.50960	.50880	.50930	.51220
.915	.839	-1.84180	2097.79999	.50210	.50240	.50220	.50330	.50330	.50330	.50960
.918	.922	-1.89060	2097.79999	.49720	.49540	.49540	.49850	.49570	.49510	.50390
.921	.912	-1.87620	2099.20001	.47210	.47160	.47090	.47001	.47190	.47040	.46940
.924	.919	.01014	.52839	.09043	.08096	.00079	.00033	.00014	.00060	.00118

RUN NO. 119/ 0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.947	.073	-1.86270	2054.60001	.47130	.47130	.47130	.47108	.47160	.46990	.48130
.947	.252	-1.88180	2055.29999	.46800	.46780	.46620	.46680	.46580	.46590	.49230
.947	.705	-1.84310	2055.29999	.44470	.44470	.44560	.44450	.44340	.44370	.47700
.947	.849	-1.84600	2056.70001	.46420	.46360	.46500	.46260	.46160	.46340	.53400
.949	.949	-1.84440	2056.70001	.45400	.45530	.45350	.45410	.45300	.45240	.49350
.947	.16.070	-1.91330	2056.09000	.46340	.46230	.46560	.46640	.46510	.46410	.53780
.946	.17.115	-1.87226	2057.39999	.43940	.43870	.43870	.43850	.43700	.43570	.49970
.948	.21.412	.00503	.16748	.00079	.00084	.00127	.00100	.00139	.00093	.03804

RUN NO. 122/ 0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT
.978	.085	-1.89960	2061.70001	.42680	.42760	.42780	.42700	.42730	.42670	.41940
.979	.268	-1.86460	2064.50000	.42550	.42510	.42580	.42570	.42586	.42680	.42130
.980	.534	-1.84890	2066.60001	.41870	.41930	.41930	.42081	.42820	.41990	.41690
.980	.682	-1.82660	2066.89999	.41840	.41930	.41830	.41968	.41968	.41780	.41670
.982	.827	-1.83200	2067.39999	.40890	.40940	.41000	.41050	.40830	.40740	.41340
.980	.913	-1.84440	2066.60001	.40736	.40760	.40940	.40510	.40520	.40500	.40960
.981	.17.181	-1.91330	2056.09000	.39600	.39660	.39760	.39780	.39760	.39640	.40780
.976	.21.582	-1.88370	2068.79999	.38900	.39040	.38840	.38800	.38760	.39080	.40690
	GRADIENT	.00598	.96836	.00060	.00060	.00048	.00087	.00035	.00002	.00155

(BETRO9) (02 000-75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 QNB1TER + TUFTS

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 1076.8800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVATION = .000
ANLON = .000 EDFLAP = -74.170

RUN NO. 129/ 0 FNL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	D1REF
1.051	.092	-1.90410	2040.50000	.35950	.35833	.35980	.35190	.35060	.35050	.34250	784.75000
1.050	4.280	-1.87050	2053.86000	.36200	.36033	.36070	.35010	.35082	.35070	.35050	783.75000
1.046	8.555	-1.85150	2042.60001	.35800	.35643	.35850	.35910	.35930	.35790	.35400	784.25000
1.048	10.717	-1.83180	2059.80000	.35480	.35323	.35500	.35820	.35470	.35670	.35380	782.75000
1.050	12.863	-1.82570	2040.50000	.35170	.35013	.35070	.35080	.34970	.35090	.34880	783.84000
1.049	15.017	-1.82260	2041.20000	.34440	.34283	.34470	.34310	.34300	.34260	.34050	783.54000
1.050	17.239	-1.81020	2041.89999	.33630	.33473	.33680	.33570	.33570	.33580	.33430	784.38000
1.043	21.584	-1.88140	2042.60001	.32330	.32173	.32390	.32310	.32480	.32440	.32450	781.58000
1.040	26.791	-1.80950	2044.00000	.30640	.30483	.30650	.30530	.30670	.30610	.30750	779.58000
	GRADIENT	.00802	-1.16714	.00064	.00048	.00021	-.00043	.00005	.00053	.00193	283.72

RUN NO. 132/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	F	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	D1REF
1.098	.083	-1.90410	2011.50000	.33700	.33780	.33620	.33530	.33720	.3365	.32470	796.50000
1.100	4.280	-1.87710	2010.80000	.33530	.33568	.33520	.33520	.33560	.33500	.32500	797.63000
1.095	8.583	-1.85940	2012.20000	.33110	.33130	.33430	.3340	.33330	.33340	.32770	792.85000
1.097	10.715	-1.83530	2012.89999	.32780	.32780	.33120	.33110	.33080	.33050	.32500	791.19000
1.096	12.868	-1.84310	2012.20000	.31930	.31972	.32780	.32790	.32780	.32770	.32450	788.24000
1.098	15.033	-1.88110	2012.20000	.31710	.31710	.31980	.31970	.31980	.31980	.31870	787.50000
1.095	17.250	-1.92310	2011.50000	.31710	.31710	.31610	.31610	.31610	.31530	.31530	787.10000
1.096	21.582	-1.90180	2015.00000	.30300	.30300	.30260	.30300	.30290	.30240	.30117	787.10000
	GRADIENT	.00643	-1.16680	-.00041	-.00035	-.00039	-.00041	-.00041	-.00045	.00117	153.81

RUN NO. 137/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	D1REF
1.149	.080	-1.98860	2001.60001	.31240	.31200	.31360	.31190	.31250	.31350	.30950	811.47000
1.151	4.258	-1.86440	2006.50000	.31280	.30940	.30730	.30670	.30850	.30650	.30080	811.47000
1.145	8.543	-1.85250	2005.10001	.30650	.30580	.30540	.30520	.30480	.30540	.30250	811.47000
1.147	10.708	-1.83770	2005.10001	.30520	.30460	.30489	.30650	.30790	.30600	.30080	815.17000
1.147	12.864	-1.82780	2005.10001	.30170	.30170	.30120	.30470	.30150	.30150	.30080	815.17000
1.148	15.024	-1.87340	2005.10001	.29480	.29340	.29490	.29370	.29380	.29210	.28630	815.17000
1.145	17.239	-1.91320	2004.39999	.29240	.29210	.29300	.29240	.29310	.28910	.28150	815.17000
1.147	21.570	-1.88560	2007.99999	.28470	.28380	.28410	.28410	.28410	.28410	.28410	815.17000
	GRADIENT	.01067	-1.17268	-.00134	-.00134	.00134	-.00134	-.00135	-.00155	.00155	153.81

(BETROB) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRLON = .000 BEFLAP = -7.176

TABULATED DATA - QAL61 (ARC 11-87-87-094)
 ARC 11-87-87-094 QAL61 ORBITER + TUFTS

REFERENCE DATA

SREF = 2530.0000 SQ.FT. XMRP = 1078.6888 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YQ
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
 SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.196	.078	-1.90900	1985.20000	.28330	.28350	.28340	.28270	.28320	.28340	.27380	828.22000
1.201	4.257	-1.88070	2003.89999	.27880	.27890	.27920	.27790	.27840	.27780	.27560	832.00000
1.195	8.539	-1.84370	1999.50800	.27880	.27830	.27840	.27900	.27840	.27780	.27680	829.49000
1.198	16.702	-1.83580	2000.89999	.27500	.27390	.27400	.27380	.27410	.27440	.27530	830.44000
1.196	12.857	-1.82940	1998.70000	.27280	.27320	.27120	.27180	.27200	.27190	.27410	829.71000
1.196	15.014	-1.87210	1993.50000	.26670	.26590	.26680	.26720	.26710	.26720	.27140	829.88000
1.197	17.227	-1.92100	1999.50800	.26320	.26300	.26290	.26360	.26250	.26260	.26770	830.08000
1.189	21.554	-1.83230	2000.20000	.26350	.26410	.26410	.26320	.26350	.26320	.26550	827.84000
	GRADIENT	.00577	1.35*16	-.00108	-.00110	-.00101	-.00115	-.00115	-.00134	.00543	.99466

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.299	.062	-1.91460	2001.60001	.23200	.23270	.23290	.23260	.23340	.23250	.22300	854.50000
1.299	4.227	-1.87610	2005.10001	.23250	.23230	.23210	.23230	.23180	.23230	.22570	853.87000
1.296	8.503	-1.85020	2005.80000	.22900	.22900	.22970	.22930	.22920	.22950	.22810	855.74000
1.294	10.674	-1.83610	2005.80000	.22790	.22810	.22890	.22670	.22670	.22680	.22770	853.52000
1.295	12.819	-1.84300	2005.80000	.22540	.22510	.22500	.22480	.22540	.22520	.22670	855.63000
1.296	14.968	-1.85510	2005.80000	.22160	.22160	.22120	.22160	.22160	.22160	.22460	855.86000
1.296	17.182	-1.90790	2005.80000	.21920	.21940	.21930	.21920	.21950	.21910	.22210	855.86000
1.293	21.527	-1.83660	2006.50000	.21690	.21680	.21680	.21590	.21690	.21650	.22000	855.52000
	GRADIENT	.00924	.84039	.00012	-.00010	-.00019	-.00007	-.00038	-.00000	.00089	.32894

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.403	.047	-1.90550	2037.60001	.19330	.19320	.19350	.19320	.19330	.19320	.18820	878.55000
1.404	4.243	-1.87340	2036.89999	.19270	.19260	.19270	.19260	.19220	.19260	.19080	879.26000
1.399	8.475	-1.84630	2037.60001	.19250	.19300	.19250	.19290	.19270	.19290	.19120	878.49000
1.399	10.639	-1.84720	2036.39999	.18910	.18940	.18930	.18870	.18890	.18890	.19040	878.80000
1.399	12.774	-1.84190	2037.60001	.18720	.18720	.18720	.18630	.18710	.18690	.18870	878.79000
1.399	14.923	-1.85230	2039.39999	.18530	.18510	.18520	.18530	.18560	.18540	.18630	878.80000
1.400	17.136	-1.91190	2037.60001	.18450	.18450	.18470	.18430	.18430	.18430	.18530	878.50000
1.395	21.482	-1.88170	2039.10001	.18440	.18440	.18410	.18400	.18460	.18390	.18510	879.00000
	GRADIENT	.00771	-.16804	-.00014	.00002	-.00010	-.00014	-.00026	-.00010	.00043	-.06961

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUEFS

(BE7R10) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.9000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
.595	.098	.16020	2597.39999	.74660	.74780	.74790	.74820	.74780	.74830	.74370	505.88000
.596	2.126	.19890	2592.10001	.74770	.74710	.74690	.74800	.74810	.74750	.74510	506.48000
.596	4.182	.19990	2592.10001	.74750	.74840	.74840	.74840	.74790	.74760	.74670	506.48000
.596	6.250	.21090	2592.89999	.74740	.74660	.74750	.74700	.74790	.74740	.74720	506.49000
.596	8.341	.21520	2593.60001	.74810	.74750	.74750	.74750	.74720	.74660	.74730	507.09000
.596	10.438	.21610	2593.60001	.74620	.74620	.74670	.74720	.74720	.74740	.74740	507.09000
.596	12.529	.21310	2593.60001	.74570	.74630	.74620	.74580	.74720	.74650	.74690	507.09000
.596	14.646	.22906	2593.60001	.74450	.74340	.74420	.74380	.74380	.74380	.74320	507.09000
.598	16.765	.22386	2594.29999	.74120	.74110	.74160	.74090	.74090	.74030	.74110	507.10000
.598	18.882	.22350	2594.29999	.73680	.73720	.73750	.73640	.73630	.73290	.73750	505.94000
.595	20.993	.21450	2594.29999	.73400	.73336	.73210	.73270	.73119	.73190	.72820	506.53000
.595	28.179	.21520	2595.00000	.71630	.71630	.71630	.71701	.71780	.71700	.00073	.14655
	GRADIENT	.00970	17097	-.00027	.00015	.00012	.00005	.00002	-.00017		

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
.798	.075	.15930	2198.20001	.59780	.59810	.59900	.59970	.60020	.60120	.86246	643.76000
.799	2.126	.20280	2198.89999	.59380	.59420	.59380	.59520	.59440	.59380	.74040	645.25000
.798	4.243	.20270	2197.50000	.59680	.59680	.59600	.59650	.59620	.59650	.67830	643.72000
.797	6.317	.21180	2197.50000	.59710	.59570	.59520	.59810	.59720	.59700	.64320	642.75000
.97	8.434	.21790	2198.20001	.59540	.59510	.59410	.59370	.59360	.59540	.62250	642.79000
.98	10.548	.21480	2198.20001	.59560	.59410	.59400	.59420	.59350	.59350	.61030	643.76000
.97	12.656	.21040	2198.20001	.59090	.58990	.59110	.59150	.59240	.59230	.60190	643.27000
.97	14.791	.22530	2198.20001	.58920	.58970	.58650	.5870	.58780	.58580	.58940	642.79000
.98	16.929	.22020	2198.20001	.57460	.57460	.57800	.57870	.57980	.57880	.58350	642.79000
.97	19.048	.22760	2198.20001	.57520	.57460	.57400	.57370	.57640	.57610	.57750	643.76000
.98	21.189	.22190	2198.20001	.56600	.56550	.56950	.56650	.56640	.56620	.56080	654.83000
.799	26.337	.22608	2230.70001	.52530	.52310	.52490	.52490	.52440	.52480	-.04204	-.01172
	GRADIENT	.01046	-17058	-.00019	-.00031	-.00072	-.00039	-.00096	-.00113		

(BE7R10) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-87-87-094)
 ARC 11-97-87-084 0A181 ORB1IER + TUETS

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 EDFLAP = -7.170

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 108/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	01PSF
.848	.044	.17630	2174.89999	.55630	.55623	.55650	.55450	.55520	.55600	.54550	683.85000
.849	2.131	.20790	2175.60001	.55560	.55631	.55660	.55650	.55670	.55720	.55080	685.53000
.849	4.228	.19870	2176.29998	.55770	.55823	.55820	.55690	.55680	.55760	.55290	685.58000
.848	6.330	.20750	2177.00000	.55780	.55723	.55750	.55830	.55750	.55790	.55370	684.71000
.848	8.444	.21970	2177.00001	.55560	.55410	.55630	.55450	.55300	.55450	.55520	684.76000
.847	10.570	.21940	2177.00000	.55531	.55480	.55480	.55480	.55520	.55520	.55520	683.88000
.848	12.688	.21300	2177.70001	.54990	.54930	.54950	.54900	.54760	.54760	.55250	685.22000
.847	14.821	.22200	2177.70001	.54440	.54400	.54510	.54470	.54370	.54330	.54368	683.85000
.848	16.957	.22560	2177.70001	.53910	.53940	.53950	.53950	.53880	.53780	.53740	685.22000
.847	19.103	.21920	2177.70001	.53090	.53170	.53250	.53200	.53180	.53040	.53740	684.31000
.847	21.243	.21650	2177.70001	.52220	.52090	.52090	.51960	.52010	.52220	.53730	684.31000
.845	26.397	.21390	2177.70001	.48020	.47960	.48070	.47890	.47850	.47980	.51010	682.48000
	GRADIENT	.00635	.33463	.00034	.00048	.00062	.00057	.00038	.80038	.00177	.46103

RUN NO. 113/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	01PSF
.898	.073	.15830	2104.10001	.51800	.51780	.51820	.51790	.51790	.51790	.50180	703.39000
.903	2.153	.20200	2105.20001	.51940	.51840	.51900	.51910	.51810	.51800	.50840	708.64000
.900	4.253	.20980	2105.50000	.51950	.51863	.51880	.51760	.51730	.51770	.51230	705.68000
.898	6.354	.21190	2105.50000	.52040	.52140	.52040	.52030	.52160	.52190	.51620	704.37000
.898	8.469	.21820	2105.20000	.51990	.52041	.51810	.51770	.51690	.51800	.51800	704.37000
.894	10.599	.23160	2105.50000	.51570	.51690	.51570	.51530	.51590	.51610	.51440	704.37000
.898	12.723	.22390	2105.50000	.51070	.50970	.51010	.50910	.50830	.50910	.50910	704.37000
.898	14.862	.22960	2105.20001	.50390	.50540	.50390	.50390	.50360	.50440	.50910	704.37000
.898	17.003	.22060	2105.50000	.49440	.49780	.49620	.49500	.49270	.49280	.49540	702.63000
.896	19.111	.22030	2105.50000	.48870	.48690	.48630	.48850	.48940	.48620	.48540	702.20000
.895	21.271	.21650	2105.50000	.47400	.47320	.47290	.47320	.47190	.47200	.48440	706.85000
.902	26.462	.21060	2104.79999	.43370	.43298	.43270	.42960	.42790	.42950	.45180	706.85000
	GRADIENT	.01231	.33381	.00036	.00019	.00014	.00007	.00014	.00005	.00251	.54211

(BE7R10) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-034)
ARC 11-97-87-034 0A161 ORBITER + TURFS

REFERENCE DATA:

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.6800 IN.
SCALE = .0300

XMRP = 1076.6810 IN. XO
YMRP = .0010 IN. YO
ZMRP = 379.0000 IN. ZO

RUN NO. 118/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.947	.072	.15080	.2073.70001	.4694C	.46880	.47040	.47100	.47100	.45390	.730.76000
.946	2.199	.20240	.2075.50000	.46980	.46980	.47050	.46980	.46830	.46110	.731.08000
.947	4.268	.20540	.2075.79999	.47050	.47150	.47350	.47130	.47150	.46500	.731.77000
.944	6.383	.21550	.2075.79999	.47470	.47260	.47150	.47390	.47130	.46640	.729.07000
.944	8.520	.22760	.2075.50000	.47130	.47330	.47230	.47070	.47130	.46640	.729.93000
.946	10.660	.22570	.2075.10001	.46770	.46830	.46750	.46520	.46570	.46620	.730.54000
.948	12.786	.21940	.2075.50000	.46880	.46880	.46480	.46580	.46800	.46260	.732.24000
.946	14.937	.21660	.2075.79999	.46940	.46880	.46600	.46760	.46650	.45990	.730.39000
.947	17.087	.20400	.2075.79999	.44190	.44190	.44060	.44160	.43980	.44140	.727.52000
.942	19.245	.20180	.2075.79999	.43760	.43700	.43440	.43120	.42470	.43400	.727.60000
.941	21.355	.21670	.2076.50000	.42190	.42350	.42240	.42390	.39050	.41490	.726.12000
.939	26.554	.20570	.2077.29999	.39110	.39230	.39350	.39150	.00012	.00264	.24.083
	GRADIENT	.01299	.49894	.00026	.00092	.00074	.00087			

RUN NO. 123/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.982	.054	.18010	.2065.20001	.42670	.42830	.42660	.42780	.42690	.41100	.751.92000
.979	2.171	.18210	.2061.70001	.42890	.42870	.42910	.42950	.43160	.40240	.748.89000
.981	4.272	.20400	.2065.20001	.42650	.42580	.42680	.42460	.42680	.41820	.751.55000
.981	6.397	.21670	.2065.60001	.42490	.42610	.42490	.42520	.42440	.41960	.751.72000
.978	8.547	.22430	.2065.89999	.42000	.42190	.42160	.42150	.42150	.42030	.749.78000
.979	10.704	.21760	.2065.89999	.42000	.41680	.41660	.41830	.41650	.41980	.750.15000
.979	12.845	.21910	.2065.89999	.41350	.41570	.41450	.41640	.41420	.41670	.750.52000
.979	14.998	.22760	.2065.89999	.40400	.40250	.40340	.40340	.40280	.41050	.750.15000
.990	17.163	.21930	.2065.89999	.39760	.39800	.39750	.39880	.40010	.40520	.751.26000
.983	19.308	.22850	.2068.79999	.39370	.39300	.39200	.39080	.39080	.38850	.753.83000
.978	21.455	.20700	.2067.39999	.38600	.39000	.38790	.38780	.38710	.39400	.750.32000
.975	26.637	.20650	.2065.20001	.35750	.35660	.35700	.35700	.35840	.37860	.747.07000
	GRADIENT	.00566	.00201	.00005	.00059	.00015	.00076	.00002	.00170	.24.083

(BETRILO) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBLITER + TUFTS

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.6800 IN.
SCALE = .0300

RUN NO. 128/ 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.049	.082	.15690 2040.50000	.36100	.36030	.36000	.35990	.35970	.35970	.34980	783.21000
1.054	2.171	.19930 2041.20000	.36140	.36070	.36090	.36060	.36070	.36070	.35480	786.46000
1.049	4.287	.19880 2041.20000	.36150	.36260	.36300	.36300	.36420	.36420	.35860	783.64000
1.050	6.412	.21610 2043.30000	.36260	.36100	.36970	.36110	.35990	.36020	.35940	785.24000
1.049	8.565	.21860 2040.50000	.36260	.36340	.36240	.36420	.36240	.36240	.36110	783.21000
1.048	10.722	.22270 2041.89999	.35710	.36710	.35540	.35710	.35630	.35770	.35910	783.44000
1.048	12.869	.22080 2041.89999	.35310	.35080	.35090	.35159	.35070	.35040	.35500	783.75000
1.048	15.039	.22220 2041.20000	.34580	.34520	.34440	.34370	.34380	.34340	.35020	783.32000
1.046	17.215	.21950 2041.20000	.34180	.34190	.34140	.34160	.34100	.34140	.34670	783.64000
1.046	19.379	.22130 2041.89999	.33980	.33980	.33910	.33870	.33810	.33830	.34260	782.49000
1.043	21.531	.20930 2041.89999	.33880	.33880	.33800	.33740	.33710	.33700	.34080	780.98000
1.043	25.752	.21260 2043.30000	.31150	.30980	.30998	.30950	.30950	.30930	.32650	780.16000
1.041	GRADIENT	.00947 .16610	.00012	.00055	.00048	.00074	.00048	.00107	.00209	.09818

RUN NO. 133/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.087	.074	.16790 2040.80000	.33840	.33840	.33850	.33820	.33840	.33860	.32480	796.24000
1.100	2.162	.19230 2010.80000	.33800	.33840	.33760	.33790	.33820	.33820	.33000	797.63000
1.097	4.291	.20960 2011.50000	.33680	.33710	.33700	.33710	.33720	.33700	.33340	796.65000
1.098	6.412	.21770 2012.20000	.33680	.33630	.33680	.33650	.33640	.33630	.33420	797.34000
1.098	8.568	.22720 2011.50000	.33540	.33520	.33580	.33520	.33500	.33510	.33950	796.09000
1.087	10.728	.22130 2011.50000	.33390	.33370	.33370	.33350	.33370	.33370	.33400	796.91000
1.097	12.880	.21720 2011.50000	.32960	.32970	.33040	.33010	.33010	.32980	.33180	795.37000
1.097	15.060	.22540 2012.89999	.32290	.32260	.32260	.32260	.32290	.32798	.32798	796.91000
1.097	17.236	.21250 2012.20000	.31840	.32000	.31830	.31830	.31930	.31760	.32440	796.78000
1.099	19.387	.21480 2013.60000	.31390	.31350	.31410	.31450	.31450	.31450	.31940	798.44000
1.094	21.529	.20220 2012.89999	.30890	.30850	.30850	.30810	.30840	.30790	.31460	796.51000
1.094	25.781	.20810 2015.70000	.28880	.28910	.28920	.28910	.28940	.28940	.30370	797.72000
1.096	GRADIENT	.00988 .16549	-.00038	-.00031	-.00036	-.00056	-.00029	-.00038	.00204	.09543

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(BETRI0) (02 AUG 76)

TABULATED DATA - OAI61 (ARC 11-97-87-094)
ARC 11-97-87-094 OAI61 ORBITER + TUFTS

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.147	.067	14.780	2001.6000	.31530	.31310	.31990	.31403	.31610	.31410	.30420	813.75000
1.151	2.156	20310	2003.7000	.31240	.31250	.31130	.31091	.31060	.30980	.30720	816.11000
1.150	4.271	20080	2003.7000	.31230	.31050	.30980	.30983	.31020	.31030	.30880	815.88000
1.148	6.393	20500	2005.1000	.31020	.31030	.30920	.30963	.30990	.31090	.30920	815.71000
1.147	8.581	22340	2005.8000	.31340	.31190	.31070	.30981	.30910	.30980	.30940	815.63000
1.147	10.716	22100	2005.1000	.30810	.30750	.30810	.30571	.30560	.30480	.30790	815.24000
1.147	12.874	21780	2005.1000	.30270	.30150	.30090	.30342	.30240	.30240	.30650	815.24000
1.147	15.036	22590	2004.3999	.30020	.30000	.29850	.29787	.29680	.29680	.30240	815.32800
1.148	17.208	21400	2005.8000	.29520	.29370	.29290	.29340	.29180	.29830	.29830	815.87000
1.146	19.388	21970	2005.8000	.29010	.29100	.28960	.28943	.28910	.28620	.29020	815.70000
1.146	21.513	20910	2007.2000	.28440	.28440	.28450	.28650	.28590	.28620	.28160	816.95000
1.145	26.783	20400	2010.8000	.27150	.27060	.27070	.27012	.27020	.27030	.28160	816.95000
	GRADIENT	.01257	.49811	-.00071	-.00060	-.00121	-.00103	-.00140	-.00090	.00109	.50489

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.197	.071	15820	1997.3000	.28340	.28250	.28310	.28280	.28340	.28340	.27390	829.35000
1.201	2.190	19470	2000.2000	.28090	.28200	.28200	.28230	.28290	.28270	.27770	831.63000
1.199	4.266	20860	1998.7000	.28260	.28207	.28230	.28270	.28330	.28280	.28020	830.59000
1.196	6.392	21920	1998.7000	.28250	.28340	.28300	.28270	.28330	.28330	.28160	829.51000
1.196	8.558	22850	2000.2000	.28058	.28060	.28100	.27970	.28090	.28040	.28120	830.26000
1.195	10.718	23860	1995.8999	.28240	.28140	.28100	.28050	.28010	.28050	.48120	828.00000
1.194	12.869	20490	1993.6000	.27700	.27640	.27570	.27570	.27530	.27530	.39300	826.70000
1.195	15.039	20830	1998.0000	.26920	.26750	.26820	.26810	.26740	.26950	.33920	829.13000
1.196	17.253	20830	2002.3000	.26130	.26120	.26140	.26090	.26150	.26090	.30550	830.99000
1.193	19.397	20560	1998.0000	.26010	.26020	.26190	.26130	.26150	.25990	.28700	828.33000
1.189	21.496	19810	1995.2000	.25180	.26190	.26200	.26140	.26070	.25970	.27600	825.81000
1.187	26.773	19250	2003.7000	.25190	.25180	.25100	.25108	.25240	.25200	.26570	826.71000
	GRADIENT	.01200	.33070	-.00019	-.00012	-.00019	-.00002	.00005	-.00014	.00150	.31722

(187R10) (02 AUG 75)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER + TUFFS

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.8800 IN.
SCALE = .0300

RUN NO. 149/ 0 RNL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
1.297	.055	.17530	2002.30000	.23620	.23630	.23600	.23660	.23630	.23630	.22930	854.38000
1.300	2.125	.22590	2005.80000	.23510	.23610	.23640	.23600	.23590	.23680	.23210	856.23000
1.299	4.238	.18790	2004.39999	.23510	.23490	.23480	.23520	.23430	.23570	.23370	856.64000
1.297	6.361	.21120	2004.39999	.23470	.23470	.23470	.23540	.23490	.23490	.23420	856.29000
1.297	8.515	.21300	2003.10001	.23310	.23210	.23280	.23280	.23280	.23250	.23350	855.54000
1.295	10.624	.21010	2003.39999	.23070	.23160	.23140	.23160	.23150	.23170	.23280	855.06000
1.293	12.835	.22300	2005.10001	.23030	.22980	.22930	.23020	.23030	.22920	.23140	855.06000
1.296	14.992	.22010	2005.80000	.22360	.22350	.22330	.22340	.22350	.22350	.22840	855.74000
1.296	17.160	.22930	2005.10001	.21750	.22350	.21770	.21780	.21770	.21750	.22370	855.52000
1.295	19.313	.22130	2005.10001	.21760	.21750	.21760	.21780	.21780	.21740	.22120	855.06000
1.295	21.466	.21070	2006.50000	.20750	.20680	.20750	.20750	.20700	.20750	.21930	855.97000
1.291	25.768	.21870	2010.10001	.20750	.20680	.20750	.20750	.20730	.20750	.21390	856.77000
	GRADIENT	.00294	.49801	-.00026	-.00034	-.00029	-.00010	-.00048	-.00014	.00105	.29905

RUN NO. 153/ 0 RNL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
1.402	.032	.17590	2049.00000	.19640	.19670	.19698	.19690	.19690	.19650	.19000	883.42000
1.405	2.111	.26260	2049.70001	.19640	.19650	.19650	.19650	.19710	.19640	.19270	883.77000
1.402	4.222	.23440	2049.00000	.19690	.19650	.19700	.19740	.19780	.19700	.19480	883.42000
1.402	6.341	.24140	2049.70001	.19600	.19610	.19600	.19590	.19570	.19630	.19550	883.75000
1.399	8.499	.23550	2049.70001	.19470	.19440	.19460	.19398	.19370	.19410	.19480	883.68000
1.399	10.653	.22280	2049.29999	.19350	.19300	.19350	.19340	.19350	.19340	.19410	883.04000
1.403	12.813	.20760	2048.29999	.19070	.19040	.19070	.19048	.19048	.19070	.19250	883.08000
1.399	14.960	.20760	2047.50000	.18840	.18840	.18820	.18800	.18860	.18770	.19050	882.76000
1.399	17.125	.22820	2048.29999	.18590	.18550	.18630	.18590	.18560	.18720	.18840	883.06000
1.396	19.280	.22820	2048.29999	.18590	.18570	.18610	.18590	.18550	.18660	.18650	883.00000
1.395	21.433	.19440	2048.29999	.18580	.18540	.18510	.18490	.18510	.18520	.18650	882.99000
1.398	26.743	.19990	2047.50000	.17380	.17420	.17520	.17400	.17370	.17470	.18110	882.75000
	GRADIENT	.02342	-.00085	.00012	-.00005	.00005	.00012	.00002	.00012	.00115	.05044

(BE7R11) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-084)
ARC 11-97-87-084 OA161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AILRON =

2.000 ELEVON = .000
.000 BDFLAP = -7.470

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.594	.092	2.24710	2590.70001	.74860	.74780	.74840	.74720	.74810	.74820	.74450	504.13000
.595	4.193	2.29470	2591.39999	.74770	.74730	.74690	.74750	.74800	.74740	.74570	505.18000
.594	8.365	2.30970	2592.00001	.74730	.74790	.74740	.74760	.74780	.74720	.74650	504.15000
.595	10.469	2.32010	2592.89999	.74750	.74620	.74770	.74720	.74690	.74680	.74720	505.49000
.594	12.682	2.30830	2593.60001	.74570	.74590	.74570	.74520	.74590	.74590	.74570	505.93000
.595	14.765	2.29170	2594.29999	.74430	.74420	.74450	.74420	.74420	.74490	.74590	505.94000
.594	16.896	2.29100	2594.29999	.73970	.73900	.74000	.74000	.74010	.74010	.73820	505.94000
.595	21.095	2.27770	2594.29999	.73410	.73250	.73320	.73340	.73430	.73180	.73820	504.77000
GRADIENT		.01160	.17064	-.00012	-.00014	-.00037	-.00012	-.00002	-.00020	.00029	.42662

RUN NO. 967 0 RVAL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 1037 0 RVAL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.737	.060	2.26270	2827.20001	.59500	.59570	.59520	.59620	.59670	.59620	.57220	651.24000
.739	4.231	2.30980	2829.29999	.58550	.59510	.59590	.59600	.59630	.59540	.58170	654.26000
.737	8.484	2.31870	2830.70001	.59460	.59520	.59380	.59410	.59270	.59270	.58660	652.41000
.739	10.580	2.32860	2830.70001	.59170	.59230	.59460	.59410	.59340	.59260	.58910	654.35000
.737	12.744	2.31280	2830.70001	.58080	.59140	.59160	.59220	.59100	.59330	.59070	652.89000
.739	14.891	2.32340	2831.39999	.58500	.58360	.58430	.58560	.58540	.58560	.58870	653.42000
.737	17.061	2.33640	2830.70001	.57890	.57740	.57860	.57810	.57820	.58050	.58540	652.41000
.739	21.893	2.31750	2831.39999	.56970	.58790	.56940	.56900	.57050	.57030	.57860	649.53000
GRADIENT		.01129	.50347	.00014	-.00014	.00017	-.00095	-.00010	-.00019	.00228	.72405

RUN NO. 1074 0 RVAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 1074 0 RVAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.843	.046	2.28440	2174.89999	.55460	.55500	.55540	.55670	.55720	.55630	.54590	685.02000
.849	4.243	2.30530	2175.60001	.55780	.55690	.55710	.55880	.55760	.55790	.55190	684.61000
.847	8.477	2.31200	2177.00000	.55760	.55680	.55800	.55830	.55750	.55700	.55450	684.26000
.847	10.598	2.31800	2177.00000	.55340	.55340	.55380	.55380	.55450	.55440	.55520	683.89000
.846	12.762	2.31500	2177.00000	.55060	.55060	.55240	.55150	.55090	.55030	.55020	682.89000
.846	14.906	2.32240	2177.00000	.54490	.54460	.54570	.54590	.54240	.54280	.54480	683.35000
.847	17.084	2.33130	2177.00000	.53910	.53920	.53920	.53850	.53710	.53760	.53480	682.02000
.845	21.335	2.30840	2177.70001	.52310	.52600	.52270	.52300	.52100	.52160	.53480	682.02000
GRADIENT		.00498	.16672	.00076	-.00045	.00040	.00092	.00010	.00038	.00133	.09764

(BETR11) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + TUFTS

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 477.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 114/ 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.074	2.27510	2114.00000	.51870	.52110	.51950	.51910	.51910	.51920	.48100	708.11000
.256	2.31300	2115.89999	.51970	.52040	.52030	.52040	.52040	.52040	.49750	708.35000
.498	2.32430	2116.70001	.51870	.51930	.51960	.51740	.51660	.51930	.50520	710.76000
.829	2.33320	2117.60001	.51450	.51550	.51550	.51480	.51470	.51460	.50880	708.65000
.895	2.32260	2114.70000	.51130	.51020	.50890	.51100	.51080	.51230	.51120	705.58000
.901	2.33290	2116.89999	.50200	.50280	.50430	.50110	.50110	.50160	.50620	710.90000
.901	2.34430	2116.20001	.49530	.49710	.49570	.49750	.49670	.49960	.50280	710.42000
.930	2.32550	2116.20001	.47570	.47590	.47480	.47430	.46910	.47080	.48420	709.15000
.930	.00906	.89532	.00024	.00017	.00019	.00005	.00031	.00029	.00395	.05979

RUN NO. 117/ 0 RV/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.054	2.24540	2073.00000	.47310	.47420	.47370	.47320	.47500	.47420	.45590	729.91000
.279	2.29350	2076.50000	.47110	.47100	.46960	.46750	.46850	.47020	.46190	732.62000
.543	2.31400	2075.10001	.46940	.47010	.46830	.47090	.47250	.47050	.46350	728.61000
.944	2.31880	2075.79999	.45700	.46870	.46920	.46800	.46760	.46810	.46640	729.46000
.944	2.29780	2075.10001	.45789	.46070	.46168	.46060	.46140	.45880	.46170	729.93000
.945	2.30800	2075.79999	.44610	.44950	.44730	.44760	.44960	.44580	.45420	731.62000
.945	17.290	2074.39999	.44270	.44299	.44490	.44930	.44350	.44170	.44900	728.53000
.944	2.29270	2078.00000	.42440	.42570	.42790	.42880	.42440	.42410	.43820	728.92000
.942	.01189	.89034	.00042	.00076	.00097	.00135	.00152	.00095	.00742	.64293

RUN NO. 124/ 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.069	2.25750	2065.20001	.42470	.42450	.42640	.42590	.42560	.42650	.41300	750.06000
.286	2.31090	2065.89999	.42670	.42530	.42710	.42710	.42580	.42570	.41720	750.09000
.571	2.31540	2066.60001	.42683	.42710	.42693	.42020	.41990	.42020	.41800	752.09000
.829	2.31660	2066.89999	.41610	.41950	.42090	.41870	.42110	.42210	.41870	751.26000
.977	2.28810	2065.20001	.41630	.41960	.41968	.41840	.41650	.41690	.41770	748.94000
.982	2.33590	2065.60001	.40370	.40300	.40300	.40250	.40340	.40310	.41100	752.48000
.982	17.270	2068.89999	.40160	.40210	.40280	.40540	.40220	.40220	.40570	749.42000
.977	2.31553	2068.79999	.38130	.38230	.38240	.38970	.38378	.38780	.39790	750.12000
.977	.01265	.16503	.00047	.00017	.00017	.00028	.00005	.00019	.00100	.19684

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITTER + TUFTS

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1078.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .0000
ALTRON = .0000
ELEVON = .0000
BDELAP = -7.170

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.051	.073	2.25720	2041.89999	.36350	.36290	.36160	.36270	.36330	.36450	.35200	785.32000
1.052	.075	2.30070	2043.50000	.36210	.36330	.36250	.36200	.36200	.36250	.35610	785.41000
1.047	.080	2.34660	2039.10001	.36010	.36050	.36110	.36116	.35880	.36110	.35820	781.72000
1.048	.0751	2.34570	2044.00000	.35880	.35500	.35710	.35750	.35460	.35440	.35640	784.09000
1.049	.07921	2.29260	2041.20000	.35110	.34950	.34910	.35020	.35800	.35060	.35420	783.95000
1.047	.079	2.33630	2041.20000	.34540	.34390	.34420	.34410	.34400	.34290	.34930	782.69000
1.048	.07304	2.33880	2041.20000	.34050	.34110	.34050	.34050	.34130	.34140	.34470	783.95000
1.039	.07626	2.32360	2041.89999	.34038	.34810	.33970	.33940	.33780	.33860	.34420	778.33000
GRADIENT		.01030	-.33160	-.00033	.00009	.00021	-.00017	-.00031	-.00038	.00057	.08432

RUN NO. 1274 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 1394 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.058	.075	2.26190	2005.10001	.33200	.33170	.33160	.33220	.33210	.33180	.30820	794.63000
1.100	.079	2.30110	2003.70000	.33280	.33070	.33100	.33050	.33090	.33110	.31890	794.92000
1.097	.08588	2.31750	2005.80000	.32690	.32660	.32680	.32770	.32840	.32810	.32220	794.20000
1.099	.0744	2.34590	2005.10001	.32710	.32740	.32740	.32740	.32730	.32760	.32470	794.35000
1.096	.07916	2.30300	2003.80000	.32450	.32440	.32420	.32440	.32450	.32440	.32420	793.65000
1.097	.07510	2.37280	2000.20000	.32250	.32290	.32250	.32250	.32250	.32250	.31910	793.04000
1.038	.0758	2.25480	2007.89999	.31910	.31930	.32008	.31990	.31970	.31940	.32190	795.72000
1.057	.07337	2.35610	2006.80000	.31870	.31870	.31880	.31920	.31970	.31978	.31890	794.49000
1.097	.07620	2.33180	2008.69001	.30640	.30650	.30730	.30720	.30750	.30680	.31430	795.25000
GRADIENT		.08988	-.33144	-.00038	-.00024	-.00034	-.00038	-.00028	-.00017	.00253	.06887

RUN NO. 1347 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 1347 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.150	.057	2.27160	2003.00000	.30940	.30850	.30940	.31050	.31150	.31110	.70470	815.72000
1.149	.0582	2.32080	2000.89999	.31140	.31140	.31240	.31170	.31170	.31130	.53500	814.31000
1.147	.0594	2.32440	2008.50000	.30840	.30840	.30720	.30880	.30630	.30630	.33690	814.75000
1.147	.0572	2.31840	2003.00000	.30730	.30730	.30810	.30800	.30810	.30830	.38230	814.54000
1.145	.0591	2.34450	2001.60001	.30340	.30340	.30510	.30460	.30440	.30370	.34910	813.04000
1.145	.05107	2.34330	2007.89999	.29650	.29630	.29670	.29670	.29630	.29740	.32680	815.61000
1.147	.05358	2.35560	2005.10001	.29870	.29870	.29710	.29590	.29540	.29540	.31450	815.24000
1.145	.05605	2.32600	2003.70000	.28760	.28810	.28760	.28750	.28930	.29100	.30650	816.35000
GRADIENT		.01357	-.49827	.00047	.00069	.00076	.00028	.00005	.00005	-.04026	-.43345

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = .000

TABULATED DATA - 0A161 (ARC 11-97-87-09*)
ARC 11-97-87-09* 0A161 ORBITER + TUFTS

REFERENCE DATA

SREF = 2692.0000 SQ. FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 144/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.194	.061	2.28330	1997.30000	.28420	.28420	.28420	.28420	.28420	.28420	.27580	828.56000
1.200	.278	2.31140	1999.00000	.28190	.28190	.28190	.28140	.28170	.28100	.27850	830.51000
1.193	8.580	2.31470	1993.10001	.28270	.28200	.28200	.28190	.28170	.28120	.28040	826.30000
1.194	10.795	2.31840	1993.80000	.27900	.27900	.28020	.27920	.27910	.27830	.27990	826.88000
1.193	12.960	2.30170	1993.50000	.27730	.27730	.27730	.27720	.27670	.27550	.27750	828.88000
1.195	15.100	2.33400	1993.00000	.26920	.26920	.26920	.26860	.26700	.26840	.27430	829.33000
1.193	17.312	2.34320	1993.89999	.26280	.26280	.26330	.26400	.26340	.26300	.26280	827.50000
1.195	21.583	2.31930	2000.20000	.25920	.25920	.25920	.25990	.26120	.26070	.26510	830.05000
	GRADIENT	.00565	.16600	.00066	.00055	.00058	.00066	.00059	.00076	.00064	.4624

RUN NO. 147A 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.293	.030	2.27130	2001.60001	.23370	.23360	.23370	.23360	.23340	.23270	.23000	854.38000
1.293	.250	2.33180	2005.10001	.23510	.23520	.23470	.23510	.23500	.23580	.23220	855.87000
1.297	8.546	2.32840	2005.10001	.23350	.23400	.23390	.23450	.23400	.23350	.23280	855.64000
1.293	10.708	2.31850	2005.80000	.23000	.23230	.23280	.23260	.23320	.23312	.23290	855.63000
1.292	12.894	2.29320	2005.80000	.23060	.23060	.23040	.23030	.23120	.23060	.23190	855.18000
1.295	15.055	2.33750	2005.80000	.22590	.22540	.22570	.22530	.22520	.22510	.22880	855.40000
1.295	17.278	2.34300	2005.10001	.22260	.22230	.22180	.22220	.22230	.22250	.22610	855.40000
1.295	21.567	2.33780	2007.89999	.21640	.21700	.21670	.21710	.21780	.21750	.22230	856.09000
	GRADIENT	.01433	.62924	.00063	.00038	.00024	.00036	.00038	.00073	.00052	.35302

RUN NO. 154 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.339	.061	2.28230	2056.70001	.19450	.19390	.19470	.19430	.19450	.19430	.18530	886.73000
1.333	.231	2.35480	2057.39999	.19630	.19680	.19670	.19650	.19700	.19650	.19370	887.04000
1.336	8.524	2.31710	2056.70001	.19730	.19710	.19730	.19710	.19690	.19760	.19390	886.65000
1.335	10.573	2.33440	2067.39999	.19510	.19540	.19530	.19530	.19490	.19480	.19430	886.97000
1.338	12.856	2.30730	2058.20001	.19080	.19070	.19090	.19120	.19100	.19110	.19140	887.26000
1.338	15.021	2.35940	2058.20001	.19040	.19000	.19080	.19100	.19110	.18980	.19570	887.01000
1.338	17.244	2.34280	2057.39999	.18950	.18970	.18970	.18950	.18910	.18980	.18730	887.67000
1.338	21.532	2.34330	2059.60001	.18670	.18660	.18610	.18590	.18580	.18570	.18730	887.07000
	GRADIENT	.00535	.16583	.00043	.00052	.00048	.00055	.00050	.00052	.00043	.47380

(18E7R12) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILPON = .000 EDFLAP = -7.170

TABULATED DATA - QAI61 (ARC 11-97-87-094)

ARC 11-97-87-094 QAI61 ORBITER - TUFTS

REFERENCE DATA

SREF = 2830.0300 SQ.FT. YHP = 1076.6800 IN. X0
LREF = 474.8800 IN. ZMRP = 375.0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 1151 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIFSF1
.895	.084	5.35590	2114.00000	.51540	.51520	.51540	.51540	.51540	.51600	.48220	.07.68000
.902	.273	5.40490	2117.60001	.51780	.51830	.51810	.51810	.51700	.51840	.50630	711.38000
.903	.514	5.40860	2119.00000	.51350	.51430	.51510	.51580	.51800	.51600	.50830	710.26000
.895	.10.655	5.40110	2114.00000	.51310	.51110	.51110	.51660	.51660	.51690	.51310	705.52000
.899	.2.787	5.40390	2116.20001	.50300	.50300	.50370	.50890	.51000	.50890	.51050	708.29000
.893	.14.921	5.42410	2114.70001	.50750	.50730	.51460	.50470	.50780	.50900	.50830	708.01000
.893	.17.070	5.43320	2116.20001	.49440	.49380	.49550	.49740	.49570	.49680	.49410	708.22000
.895	.21.345	5.45990	2116.20001	.47790	.47600	.47780	.47730	.47750	.47670	.49240	705.71000
	GRADIENT	.00931	.85903	.00055	.00057	.00072	.00000	.00038	.00057	.00093	.61.268

RUN NO. 1161 0 RN/L = 4.20 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIFSF1
.902	.084	5.35600	2076.50000	.45380	.48220	.45170	.45130	.48340	.46080	.48420	.735.34000
.906	.234	5.40510	2073.70001	.47620	.47160	.47160	.47640	.47070	.47800	.47790	729.59000
.906	.7.708	5.38650	2074.39999	.47330	.47360	.47340	.47400	.47680	.47850	.47780	730.07000
.902	.10.709	5.40270	2074.39999	.45710	.46230	.46880	.46540	.46710	.46470	.47800	727.37000
.903	.12.860	5.38150	2075.79999	.45250	.45330	.45450	.45540	.45450	.45520	.46780	728.69000
.908	.14.995	5.41060	2075.79999	.45490	.45260	.45450	.45340	.45490	.45460	.46310	731.69000
.907	.17.158	5.41620	2075.79999	.44460	.44950	.44630	.44490	.44490	.44460	.45460	731.39000
.935	.21.415	5.43430	2075.10001	.42660	.42740	.42540	.42700	.42640	.42410	.44150	722.57000
	GRADIENT	.01193	.65656	.00152	.00684	.00230	.00217	.00198	.00219	.00850	-1.27378

RUN NO. 1251 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIFSF1
.909	.085	5.37350	2067.39999	.42160	.42120	.42330	.42050	.41930	.42030	.40570	.751.38000
.903	.4.304	5.40310	2065.20001	.42620	.42760	.42760	.42760	.42520	.42680	.41610	750.08000
.903	.6.591	5.40820	2065.20001	.42350	.42350	.42660	.42310	.42240	.42320	.41850	750.80000
.903	.10.755	5.38280	2067.39999	.42820	.42640	.42950	.42740	.42740	.42650	.42210	750.52000
.907	.12.895	5.38370	2064.50000	.42140	.42060	.42110	.42280	.41930	.42670	.42350	749.93000
.907	.15.055	5.39420	2067.39999	.41350	.41260	.41780	.41930	.41520	.41970	.41840	749.57000
.903	.17.200	5.41640	2065.20001	.40930	.40690	.40590	.40730	.40630	.40660	.41420	748.24000
.903	.21.504	5.44860	2065.20001	.39576	.39560	.39400	.39400	.39450	.39400	.40540	745.94000
	GRADIENT	.00654	.52136	.00109	.00128	.00159	.00168	.00135	.00154	.00283	-2.5658

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + TUFTS

(BETR12) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.020 ELEVON = .000
AILLON = .000 BEFLAP = -7.17E

REFERENCE DATA

SPEF = 2680.0000 50. FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8800 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZQ
SCALE = .0500

RUN NO. 126/ 0 RAN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(P5)
1.051	.084	5.38210	2042.8000	.35990	.35740	.35780	.35780	.35720	.35580	.38740	785.1200
1.049	.084	5.41230	2033.8000	.35830	.35980	.36020	.35870	.36060	.35070	.37840	783.4100
1.045	.084	5.44100	2044.0000	.35730	.35980	.35540	.35630	.35560	.35470	.38680	788.8200
1.040	.084	5.46810	2048.5000	.35300	.35290	.35360	.35170	.35280	.35330	.36090	784.1500
1.036	.084	5.49760	2042.5000	.35620	.35740	.35740	.35630	.35460	.35290	.36680	782.6000
1.032	.084	5.52400	2041.5000	.34880	.34930	.34930	.34880	.34880	.34880	.35380	786.2100
1.029	.084	5.54810	2043.5000	.34270	.34400	.34610	.34630	.34880	.34680	.34980	786.2100
1.041	.084	5.47040	2044.7000	.33050	.33130	.33060	.33050	.33060	.33050	.34050	780.3800
	GRADIENT	.00714	-.66241	.00057	.00857	.00062	.00028	.00080	.00114	.00560	-.40454

RUN NO. 140/ 0 RAN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(P5)
1.100	.086	5.36520	2005.1000	.32950	.33030	.32970	.33020	.33038	.33000	.32320	795.4600
1.100	.086	5.39860	2004.39999	.32840	.32950	.32900	.32900	.32910	.32900	.32680	795.3300
1.097	.086	5.40440	2004.39999	.32570	.32540	.32550	.32560	.32520	.32560	.32580	794.6600
1.103	.086	5.39820	2005.8000	.32320	.32390	.32470	.32550	.32500	.32540	.32610	796.5600
1.096	.086	5.41000	2005.8000	.32850	.32740	.32810	.32800	.32790	.32760	.32780	793.3200
1.098	.086	5.44030	2004.39998	.32480	.32440	.32430	.32430	.32420	.32430	.32590	794.2200
1.094	.086	5.46460	2008.6000	.30850	.30890	.31020	.31100	.31020	.31010	.31860	793.8900
	GRADIENT	.00788	-.16516	-.00026	-.00019	-.00017	-.00028	-.00028	-.00024	.00066	-.03067

RUN NO. 135/ 0 RAN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(P5)
1.151	.083	5.37110	2004.39999	.30700	.30880	.30660	.30770	.30930	.30740	.30960	818.5000
1.150	.083	5.43180	2003.7000	.30790	.30800	.30810	.30840	.30970	.31040	.31130	813.8900
1.145	.083	5.44880	2006.5000	.30120	.30140	.30100	.30090	.30010	.29990	.30000	813.0700
1.145	.083	5.43830	2004.39999	.30130	.30110	.30030	.30130	.29860	.30330	.30410	814.5100
1.145	.083	5.44450	2004.39999	.30090	.30010	.30010	.30060	.30020	.30100	.30260	814.1300
1.147	.083	5.42050	2005.1000	.30370	.30260	.30350	.30240	.30260	.30320	.30350	815.2400
1.148	.083	5.44930	2005.8000	.29870	.29760	.29800	.29760	.29910	.29970	.30230	815.6700
1.148	.083	5.47060	2010.1000	.28690	.28570	.28570	.28540	.28660	.28540	.29480	816.0700
1.144	.083	.01435	-.16562	.00021	-.00002	.00059	.00017	.00033	.00017	.00140	-.14868

TABULATED DATA - 0A16J (ARC 11-97-87-094)
ARC 11-97-87-094 0A16J ORBITER

(BETR13) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.098 ELEVON = .000
ALTRON = .000 BDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6805 IN. XC
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.597	.136	-4.94520	2592.89999	.74650	.74720	.74640	.74630	.74670	.74600	.73810	508.24000
.598	2.166	-4.93450	2593.00000	.74560	.74580	.74590	.74520	.74580	.74590	.74140	510.61000
.598	4.211	-4.92220	2595.00000	.74610	.74560	.74570	.74520	.74610	.74550	.74390	510.02000
.597	6.283	-4.93490	2595.00000	.74470	.74510	.74540	.74530	.74470	.74550	.74470	509.44000
.597	8.371	-4.92210	2595.00000	.74540	.74530	.74550	.74450	.74530	.74530	.74600	510.02000
.597	10.476	-4.91140	2595.00000	.74480	.74570	.74560	.74560	.74590	.74490	.74600	508.86000
.597	12.586	-4.88440	2595.00000	.74290	.74480	.74510	.74510	.74530	.74460	.74570	509.44000
.597	14.690	-4.87630	2595.00000	.74010	.73990	.73970	.74240	.74010	.73910	.74430	508.86000
.597	16.788	-4.88170	2595.00000	.73650	.73730	.73670	.74070	.73650	.73910	.74189	508.26000
.597	18.908	-4.90890	2595.70001	.73390	.73380	.73310	.73290	.73330	.73730	.73870	510.62000
.597	21.014	-4.90810	2595.70001	.73000	.73010	.73100	.73080	.72950	.72950	.73730	508.87800
.597	23.115	-4.89930	2596.70001	.72510	.72510	.72580	.72590	.72510	.72400	.73390	508.30000
.596	25.199	-4.88970	2596.39999	.71710	.71800	.71880	.71840	.71890	.71800	.72950	508.31000
.598	26.192	-4.84950	2595.70001	.70010	.70039	.70017	.70027	.70015	.70012	.72430	510.04000
.598	GRADIENT	.00073	.51476	.00010	.00039	.00017	.00027	.00015	.00012	.00142	.43596

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.698	.126	-4.94620	2378.50000	.67150	.67210	.67070	.67140	.67170	.67190	.67040	585.78000
.699	2.166	-4.93910	2378.50000	.67150	.67040	.67150	.67110	.67160	.67150	.67130	587.39000
.698	4.229	-4.95210	2378.50000	.67140	.67140	.67080	.67150	.67270	.67200	.67240	586.32000
.699	6.315	-4.94530	2378.50000	.67020	.67010	.67100	.67010	.67000	.67100	.67160	586.85000
.698	8.418	-4.93230	2379.29999	.67130	.67150	.67100	.67050	.67020	.67050	.67090	586.34000
.698	10.539	-4.92050	2380.00000	.67020	.67070	.66950	.66870	.67000	.66920	.66980	585.82000
.697	12.664	-4.90170	2380.00000	.66860	.66820	.66790	.66820	.66760	.66850	.66960	585.29000
.698	14.763	-4.88970	2380.00000	.66470	.66430	.66460	.66400	.66390	.66440	.66760	585.83000
.697	16.874	-4.90450	2380.00000	.66240	.66250	.66210	.66100	.66130	.66110	.66440	584.75000
.697	19.096	-4.93610	2380.00000	.65920	.65740	.65830	.65760	.65790	.65800	.66200	585.29000
.699	21.142	-4.93470	2380.00000	.65350	.65370	.65340	.65300	.65300	.65250	.65760	587.44000
.699	23.251	-4.93040	2380.00000	.64990	.64840	.64930	.64820	.64780	.64570	.65360	589.83000
.698	25.302	-4.93740	2380.70001	.63390	.63260	.63280	.63250	.63280	.63110	.64500	585.39000
.699	26.262	-4.87500	2380.76001	.62360	.62310	.62310	.62510	.62530	.62630	.63620	585.31000
.697	GRADIENT	.00145	.06000	.00010	.00017	.00002	.00002	.00024	.00002	.00441	.13067

(BETRI3) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AIRLON = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 434 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.06

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q (PSF)
.80C	.107	-4.95160	2208.10001	.59300	.59290	.59390	.59390	.59220	.59340	.57760	648.68000
.799	2.168	-4.95140	2208.10001	.59560	.59530	.59420	.59370	.59290	.59370	.58500	647.72000
.798	4.238	-4.95370	2208.10001	.59540	.59580	.59650	.59500	.59480	.59390	.58820	646.75000
.798	6.341	-4.95300	2208.10001	.59520	.59410	.59310	.59280	.59280	.59350	.59130	646.75000
.797	8.452	-4.95600	2207.39999	.59440	.59400	.59440	.59440	.59450	.59450	.59260	648.22000
.797	10.572	-4.95760	2208.10001	.59450	.59210	.59230	.59190	.59290	.59190	.59260	645.78000
.798	12.691	-4.97740	2208.10001	.59880	.59880	.59810	.59840	.59890	.59810	.59050	645.78000
.797	14.815	-4.98110	2207.39999	.59450	.59420	.59380	.59420	.59480	.59490	.58880	647.19000
.797	16.931	-4.98110	2208.10001	.59450	.59420	.59380	.59420	.59480	.59490	.58880	645.78000
.797	19.065	-4.98250	2208.10001	.57850	.57760	.57810	.57780	.57720	.57820	.58330	645.78000
.797	21.213	-4.94930	2208.10001	.56030	.56120	.56190	.56300	.56130	.56050	.57050	644.81000
.796	23.309	-4.93910	2208.10001	.53900	.53900	.53910	.53978	.53820	.53880	.55790	645.29000
.796	25.344	-4.90820	2208.10001	.00058	.00051	.00039	.00027	.00063	.00012	.00281	-4.46727

RUN NO. 44/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q (PSF)
.851	.113	-4.97910	2160.00000	.55190	.55220	.55210	.55140	.55218	.55160	.56870	681.69000
.848	2.174	-4.95640	2154.29999	.56660	.56640	.56690	.56640	.56700	.56560	.56478	677.62000
.847	4.257	-4.95490	2157.20001	.56840	.56640	.56690	.56730	.56800	.56690	.56400	677.35000
.848	8.467	-4.95370	2157.89999	.56590	.56560	.56600	.56510	.56570	.56570	.56800	678.33000
.847	10.593	-4.96170	2157.89999	.56520	.56570	.56580	.56520	.56570	.56510	.55560	677.41000
.848	12.714	-4.92920	2157.89999	.54960	.54980	.54990	.54910	.54870	.54860	.55300	678.33000
.848	13.868	-4.91360	2157.20001	.55570	.55530	.55540	.55610	.55590	.55640	.55900	678.73000
.845	14.834	-4.91360	2155.79999	.54620	.54660	.54640	.54590	.54680	.54450	.55000	675.43000
.846	16.980	-4.92580	2157.89999	.53030	.53108	.53110	.53050	.53200	.53350	.54450	675.95000
.847	19.122	-4.94950	2157.20001	.53370	.53270	.53280	.53410	.53450	.53400	.53950	677.62000
.846	21.245	-4.94760	2157.20001	.52400	.52370	.52350	.52470	.52470	.52380	.53370	675.45000
.845	23.337	-4.94560	2155.50000	.51080	.51040	.51080	.50840	.50950	.50980	.52380	675.49000
.845	25.393	-4.90760	2157.20001	.49030	.49130	.49170	.49260	.49140	.49190	.50950	676.91000
.846	26.405	-4.85930	2156.50000	.48460	.48210	.47980	.48120	.48190	.48460	.49740	678.22000
.848	GRADIENT	.00583	-67195	.00109	.00101	.00116	.00142	.00142	.08128	-.00185	-1.04330

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BE7R13P (02 AUG 75.)

REFERENCE DATA.

SPEF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AILERON = .000 BDELAP = -7.170

RUN NO. 544 0 RVL = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
.903	.105	-4.97020	2127.50000	.51140	.51140	.51140	.51340	.51260	.51310	.49100	715.23000
.901	2.182	-4.98070	2123.73999	.51550	.51460	.51460	.51400	.51530	.51430	.50160	713.50000
.900	4.254	-4.97120	2127.56000	.51590	.51480	.51390	.51720	.51610	.51520	.50760	713.15000
.899	6.373	-4.95370	2128.20001	.51700	.51490	.51460	.51370	.51410	.51310	.50960	714.05000
.899	8.485	-4.94660	2127.50000	.51750	.51700	.51620	.51790	.51700	.51760	.51320	712.28000
.900	10.617	-4.94310	2128.20001	.51330	.51380	.51140	.51260	.51200	.51150	.51280	713.21000
.900	12.742	-4.92890	2127.50000	.51130	.51080	.50980	.51050	.50860	.50750	.51120	713.57000
.901	14.884	-4.93580	2128.20001	.50420	.50320	.50280	.50120	.50180	.50280	.50330	712.71000
.899	17.012	-4.93890	2127.50000	.49550	.49520	.49520	.49580	.49520	.49660	.49700	710.99000
.897	19.173	-4.95950	2127.50000	.48790	.48730	.48550	.48650	.48800	.48770	.48760	712.34000
.899	21.302	-4.96520	2128.20001	.47300	.47300	.47300	.47420	.47420	.47510	.47270	713.06000
.900	23.415	-4.95870	2126.79999	.45390	.45390	.45390	.45420	.45300	.45200	.45650	710.61000
.895	25.485	-4.92540	2128.20001	.43730	.43730	.43600	.43490	.43500	.43630	.44910	712.74000
.899	26.494	-4.87940	2127.50000	.43020	.43040	.43180	.42950	.43030	.42880	.00399	-50000
	GRADIENT	- .00824	.00011	.00082	.00082	.00050	.00091	.00084	.00050		

RUN NO. 554 0 RVL = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
.949	.119	-4.96790	2086.39999	.46070	.45940	.46030	.46120	.46130	.46150	.47910	735.44000
.949	2.197	-4.96230	2084.29999	.46380	.46500	.46570	.46580	.46680	.46740	.47170	736.20000
.950	4.294	-4.95850	2085.00000	.46740	.46840	.46760	.46540	.46590	.46570	.46880	736.66000
.949	6.410	-4.95140	2085.70001	.46600	.46520	.46540	.46360	.46640	.46520	.46710	736.36000
.947	8.531	-4.94470	2085.00000	.46478	.46290	.46220	.46200	.46090	.46150	.46430	735.73000
.948	10.653	-4.94040	2185.70001	.45930	.45790	.45790	.45940	.45950	.45850	.46160	735.59000
.947	12.862	-4.93170	2085.00000	.45540	.45610	.45650	.45790	.45570	.45600	.45950	735.13000
.946	14.949	-4.94880	2085.00000	.44780	.44820	.44660	.44600	.44650	.44670	.45390	734.36000
.947	17.098	-4.95910	2085.70001	.43930	.43830	.44020	.44360	.44040	.44020	.44820	735.21000
.947	19.270	-4.94660	2085.00000	.42990	.42990	.42990	.42660	.42620	.42580	.43830	735.13000
.946	21.396	-4.94960	2085.70001	.41530	.41550	.41520	.41450	.41460	.41450	.42780	733.89000
.945	23.487	-4.94960	2085.70001	.39900	.39800	.39160	.39160	.39310	.39290	.41390	734.05000
.945	25.568	-4.92320	2085.00000	.38780	.38920	.39000	.38780	.38930	.38640	.40190	733.20000
.948	26.553	-4.91010	2085.76001	.38150	.38280	.38300	.38280	.38250	.38320	.39350	735.59000
	GRADIENT	- .00225	-.33441	.00161	.00216	.00175	.00100	.00110	.00100	-.00151	-.05293

(BE7R13) (02 AUG 78)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
ATLROM = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 958.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 64/ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.981	.113	-4.9690	2075.7999	.42180	.42330	.42160	.42168	.42150	.42360	.40800	755.44000
.979	2.204	-4.96170	2074.3999	.42450	.42520	.42450	.42540	.42260	.42410	.41380	753.41000
.981	4.303	-4.96110	2075.1000	.42220	.42200	.42170	.42170	.42220	.42320	.41820	754.61000
.979	6.425	-4.95370	2074.3999	.42520	.42550	.42450	.42390	.42490	.42330	.42190	753.41000
.979	8.566	-4.93780	2076.5000	.42190	.41970	.42060	.42110	.42080	.42100	.42130	754.04000
.978	10.698	-4.92850	2075.1000	.41560	.42020	.41730	.41840	.41900	.41870	.42660	753.42000
.979	12.844	-4.92480	2075.1000	.41020	.40950	.41030	.41130	.41100	.41450	.41750	753.87000
.977	15.003	-4.93130	2075.7999	.40500	.40420	.40280	.40280	.40310	.40140	.41430	752.84000
.978	17.149	-4.94220	2075.1000	.38590	.39530	.39590	.39590	.39690	.39520	.40950	752.75000
.977	19.319	-4.96570	2075.1000	.38990	.38930	.38820	.38840	.38890	.38880	.40330	752.38000
.976	21.462	-4.94970	2075.1000	.37090	.37020	.36850	.36930	.36790	.37920	.38490	751.26000
.977	23.578	-4.94250	2076.5000	.36220	.36240	.36290	.36380	.36130	.37390	.37390	750.88000
.975	25.640	-4.91720	2075.1000	.35880	.35880	.35890	.35850	.35810	.35700	.36630	753.41000
.979	26.645	-4.87160	2074.3999	.00039	.00031	.00002	.00002	.00017	.00014	.00291	-1.19758

GRADIENT

RUN NO. 65/ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.049	.126	-4.96830	2040.5800	.36250	.36050	.36180	.36180	.36120	.36020	.33380	783.21000
1.051	2.210	-4.95230	2038.3999	.36270	.36360	.36270	.36190	.36180	.36390	.37400	783.50000
1.053	4.316	-4.95970	2041.2000	.35770	.35920	.35900	.35900	.35750	.35740	.36640	786.63000
1.049	6.436	-4.94160	2038.3999	.35970	.35930	.36020	.35970	.35780	.36800	.36280	782.87000
1.047	8.570	-4.94170	2040.5000	.35570	.35590	.35610	.35640	.35540	.35440	.35930	782.58000
1.048	10.721	-4.93540	2041.2000	.35110	.35130	.35230	.35130	.35060	.35140	.35610	783.01000
1.049	12.872	-4.93800	2038.3999	.34740	.34570	.34920	.34890	.34800	.34910	.35290	782.56000
1.048	15.041	-4.95620	2038.3999	.33680	.33600	.33690	.33650	.33630	.34370	.34970	781.93000
1.046	17.204	-4.94510	2040.5800	.33150	.33170	.33070	.33050	.33020	.33860	.34430	784.78000
1.046	19.374	-4.96940	2038.3999	.32490	.32490	.32460	.32460	.32520	.32670	.33290	782.71000
1.045	21.533	-4.95420	2043.3000	.31790	.31800	.31930	.31850	.31670	.32620	.32620	782.92000
1.045	23.664	-4.95950	2042.6000	.30610	.30630	.30600	.30590	.30550	.30510	.31720	780.38000
1.043	25.736	-4.91940	2040.5000	.30530	.30720	.30760	.30680	.30750	.30770	.31310	783.23000
1.047	26.753	-4.86510	2042.6000	.00115	.00031	.00067	.00048	.00088	.00060	.00776	.62606

GRADIENT

TABULATED DATA - 04161 (ARC 11-97-87-09%)

(BE7R13) (02 AUG 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

ARC 11-97-87-09% 04161 ORBITER

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRON = -7.170

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.100	.091	5.3610	2014.30000	.33200	.33150	.33120	.33140	.33050	.33080	.32060	799.12000
1.101	2.207	-4.96320	2014.39000	.33030	.33020	.33090	.33080	.33060	.33110	.32720	799.40000
1.100	4.310	-4.98440	2015.70000	.32980	.32980	.32960	.32980	.32940	.32990	.32790	799.68000
1.100	6.438	-4.93630	2015.00000	.32830	.32830	.32760	.32780	.32770	.32800	.32790	799.53000
1.098	8.568	-4.94820	2014.30000	.32400	.32400	.32400	.32480	.32470	.32420	.32630	798.29000
1.099	10.721	-4.93920	2015.70000	.32420	.32380	.32400	.32420	.32380	.32450	.32530	799.11000
1.100	12.875	-4.92200	2015.00000	.32400	.32340	.32400	.32410	.32380	.32450	.32540	798.98000
1.100	15.046	-4.94060	2015.70000	.32260	.32260	.32190	.32170	.32150	.32080	.32390	799.38000
1.100	17.209	-4.94980	2015.70000	.31860	.31870	.31880	.31840	.31910	.31840	.32160	799.39000
1.100	19.331	-4.96440	2015.70000	.30970	.30970	.30900	.30930	.30950	.30920	.31630	799.39000
1.099	21.531	-4.98100	2015.70000	.29710	.29720	.29700	.29710	.29650	.29700	.30090	799.11000
1.099	23.661	-4.93600	2016.39999	.29450	.29450	.29430	.29470	.29470	.29440	.30000	799.52000
1.099	25.769	-4.88800	2013.68001	.28800	.28810	.28860	.28860	.28850	.28790	.29510	797.60000
1.097	26.783	-2.46040	.33148	.00052	.00040	.00038	.00062	.00026	.00021	.00173	.12800

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.148	.121	-4.98490	2001.60001	.30840	.30890	.30940	.30890	.30960	.30920	.31170	814.23000
1.149	2.193	-4.97270	2003.70000	.30940	.30828	.30820	.30958	.30740	.30750	.31000	815.41000
1.148	4.299	-4.95780	2003.00000	.30610	.30520	.30610	.30570	.30630	.30640	.30840	814.78000
1.147	6.423	-4.94950	2003.00000	.30520	.30520	.30520	.30470	.30520	.30490	.30690	814.30000
1.147	8.561	-4.93870	2004.39999	.30100	.30060	.30050	.29980	.30040	.30080	.30360	814.85000
1.147	10.714	-4.94270	2003.70000	.30000	.30030	.30110	.30090	.30020	.30160	.30310	814.69000
1.146	12.858	-4.94310	2003.00000	.30020	.29920	.30080	.30150	.30140	.30170	.30280	814.06000
1.148	15.043	-4.94330	2004.39999	.29570	.29600	.29660	.29660	.29630	.29540	.29558	815.32000
1.150	17.204	-4.94670	2004.39999	.29350	.29440	.29420	.29410	.29320	.29340	.29690	816.27000
1.148	19.380	-4.97840	2005.10001	.28560	.28540	.28610	.28610	.28610	.28510	.29200	815.71000
1.149	21.531	-4.88570	2005.10001	.28150	.28098	.28170	.28210	.28160	.28180	.28760	815.71000
1.149	23.664	-4.95720	2003.00000	.27940	.27890	.27860	.27860	.27860	.27880	.28370	815.25000
1.149	25.776	-4.94540	2003.00000	.27500	.27500	.27500	.27500	.27430	.27370	.27940	815.25000
1.149	26.896	-4.91030	2004.39999	.27100	.27030	.27020	.27060	.27070	.27090	.27530	816.27000
1.150	GRADIENT	.00648	.33331	.00055	.00069	.00072	.00077	.00103	.00057	.00079	.13049

(BETR13) (02 AUG 78)

PARAMETRIC DATA

 BETA = -5.000 ELEVON = .000
 AIRLON = -7.170

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

REFERENCE DATA

 SPEF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8080 IN. YMRP = .0000 IN. YQ
 BREF = 936.6800 IN. ZMRP = 375.0080 IN. ZQ
 SCALE = .0380

RUN NO. 84 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.202	102	-4.96080	2006.50000	.27740	.27740	.27720	.27740	.27720	.27710	.27030	834.80000
1.202	2.182	-4.96080	2003.39999	.27740	.27580	.27600	.27590	.27620	.27600	.27270	835.91000
1.203	4.280	-4.97050	2007.89999	.27720	.27610	.27620	.27690	.27640	.27760	.27520	835.55000
1.202	6.411	-4.98140	2009.39999	.27520	.27560	.27590	.27560	.27530	.27470	.27450	835.91000
1.200	8.553	-4.99470	2007.20000	.27330	.27310	.27290	.27350	.27290	.27030	.27360	834.40000
1.201	10.707	-4.99470	2008.60001	.27040	.26990	.27020	.26930	.26950	.26740	.27020	835.15000
1.201	12.864	-4.93590	2009.39999	.26780	.26750	.26770	.26750	.26710	.26700	.26890	834.39000
1.199	15.040	-4.95350	2007.89999	.26750	.26680	.26800	.26180	.26160	.26100	.25890	834.55000
1.198	17.199	-4.93490	2009.39999	.26200	.26230	.26230	.25810	.25840	.25520	.26210	833.81000
1.198	19.371	-4.97680	2007.20000	.25750	.25790	.25820	.25720	.25570	.25520	.25890	833.60000
1.197	21.548	-4.97100	2007.89999	.25890	.25720	.25680	.25720	.25730	.25760	.25860	833.97000
1.197	23.661	-4.96730	2008.60001	.25710	.25690	.25580	.25580	.25240	.25150	.25530	832.78000
1.193	25.779	-4.95320	2008.60001	.25130	.25190	.25150	.25250	.24770	.24790	.25260	833.99000
1.198	26.808	-4.92480	2007.89999	.24760	.24760	.24770	.24830	.24770	.24790	.25260	833.99000
	GRADIENT			.00010	.00031	.00024	.00012	.00019	.00002	.00117	.17903

RUN NO. 85 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.297	100	-5.00820	2005.10001	.22920	.22910	.22860	.22930	.22960	.22940	.24850	855.64000
1.297	2.163	-4.98880	2004.39999	.22930	.22920	.22860	.22960	.22960	.22940	.24850	855.41000
1.297	4.258	-5.01570	2004.39999	.22960	.23000	.22980	.22980	.23000	.22930	.23550	855.29000
1.295	6.381	-4.99680	2005.10001	.23070	.23000	.23030	.23040	.23050	.23010	.23350	855.40000
1.295	8.517	-4.97320	2005.10001	.22780	.22850	.22900	.22870	.22850	.22890	.23160	855.29000
1.294	10.672	-4.95510	2005.10001	.22540	.22580	.22550	.22480	.22520	.22540	.22860	855.18000
1.294	12.822	-4.95100	2005.10001	.22490	.22480	.22510	.22470	.22430	.22490	.22730	855.18000
1.293	14.935	-4.96380	2005.10001	.22230	.22190	.22240	.22220	.22190	.22190	.22470	855.06000
1.293	17.157	-4.96760	2005.10001	.22020	.22020	.22020	.22040	.22010	.21950	.22250	854.95000
1.293	19.327	-4.98920	2005.10001	.21730	.21760	.21710	.21700	.21740	.21720	.22020	855.05000
1.292	21.475	-4.98860	2005.10001	.21610	.21580	.21580	.21560	.21530	.21540	.21800	854.83000
1.294	23.617	-4.98120	2005.10001	.20810	.20850	.20860	.20970	.20950	.20930	.21410	855.40000
1.295	25.746	-4.95350	2008.60000	.20860	.20910	.20910	.20820	.20900	.20980	.21210	855.86000
1.295	26.796	-4.93870	2005.10001	.20620	.20650	.20670	.20690	.20680	.20690	.20970	855.06000
1.293	GRADIENT			.00010	.00022	.00011	.00012	.00010	.00002	.00313	.08417

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETRI3) (02 AUG 76.)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.403	.074	-4.97770	2070.20001	.19160	.19160	.19180	.19180	.19190	.19160	.18710	892.58000
1.404	2.146	-5.01400	2063.50000	.19130	.19090	.19100	.19140	.19110	.19110	.18930	892.29000
1.402	4.235	-5.01220	2069.50000	.19130	.19170	.19150	.19150	.19180	.19150	.19030	892.27000
1.399	6.362	-4.98600	2070.20001	.19230	.19230	.19240	.19210	.19210	.19230	.19110	892.53000
1.400	8.497	-4.95360	2070.20001	.19190	.19200	.19200	.19170	.19190	.19150	.19140	892.54000
1.400	10.648	-4.95360	2070.20001	.19050	.19050	.19050	.19060	.19070	.19040	.19120	892.54000
1.399	12.794	-4.95260	2070.20001	.18660	.18680	.18650	.18700	.18690	.18710	.18950	892.54000
1.398	14.968	-4.95700	2070.20001	.18460	.18460	.18460	.18530	.18450	.18510	.18720	892.49000
1.398	17.126	-4.97840	2070.20001	.18380	.18380	.18390	.18340	.18400	.18420	.18590	892.49000
1.398	19.303	-4.98360	2070.20001	.18560	.18560	.18560	.18578	.18590	.18590	.18580	892.48000
1.398	21.461	-5.00530	2070.89999	.18070	.18070	.18070	.18000	.18030	.18050	.18340	892.80000
1.398	23.605	-4.93460	2070.89999	.17900	.17900	.17880	.17830	.17860	.17900	.18160	892.83000
1.400	25.736	-4.93050	2070.89999	.17530	.17530	.17538	.17560	.17520	.17560	.17900	892.80000
1.398	26.785	-4.93320	2070.20001	.17230	.17230	.17240	.17260	.17220	.17190	.17610	892.51000
	GRADIENT			-.00007	-.00003	-.00007	-.00007	-.00002	-.00002	.00077	-.07444
MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.556	.019	-5.64910	1499.39999	.14270	.14270	.14300	.14290	.14230	.14270	.14270	637.95000
1.556	2.016	-5.61980	1500.10001	.14260	.14310	.14300	.14270	.14300	.14270	.14270	638.26000
1.556	4.095	-5.62010	1500.80000	.14290	.14340	.14330	.14340	.14340	.14358	.14280	638.56000
1.556	6.170	-5.61760	1499.39999	.14350	.14320	.14310	.14280	.14310	.14310	.14320	637.95000
1.556	8.243	-5.61820	1500.80000	.14140	.14130	.14150	.14150	.14150	.14220	.14180	638.56000
1.556	10.312	-5.61750	1502.20000	.14100	.14180	.14060	.14150	.14100	.14090	.14120	639.16000
1.556	12.399	-5.61750	1497.20000	.13730	.13780	.13720	.13660	.13690	.13670	.13660	641.27000
1.556	14.448	-5.62080	1510.00000	.13200	.13170	.13170	.13230	.13240	.13200	.13210	642.47000
1.556	16.594	-5.62030	1512.10001	.13270	.13260	.13140	.13160	.13170	.13200	.13190	643.37000
1.556	18.691	-5.62210	1514.30000	.13090	.13060	.13050	.13060	.13090	.13080	.13080	644.27000
1.556	20.726	-5.61970	1513.60001	.13670	.13670	.13100	.13100	.13090	.13100	.13120	643.97000
1.556	22.806	-5.61830	1512.89999	.12390	.12370	.12410	.12380	.12430	.13100	.12380	643.67000
1.555	24.873	-5.61260	1513.60001	.11710	.11730	.11730	.11730	.11730	.11820	.11750	643.97000
1.555	25.903	-5.61240	1514.30000	.11460	.11460	.11460	.11450	.11460	.11470	.11500	644.27000
1.555	GRADIENT			.00005	.06017	.00007	.00012	.00027	.00022	.00002	.14717

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETR13X (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.8800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0309

PARAMETRIC DATA

BETA =
 ALTRON =
 -5.000 ELEVON = .000
 BDRAP = -7.170

RUN NO. 3494 01 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
2.250	-1.138	-6.07330	1999.10001	.03640	.03600	.03620	.03640	.03620	.03630	.03650	600.54000
2.250	1.844	-6.07310	1953.60001	.03530	.03560	.03520	.03530	.03520	.03510	.03540	600.98000
2.250	3.902	-6.07220	1961.30008	.03530	.03580	.03560	.03580	.03560	.03570	.03580	601.19000
2.250	5.957	-6.07170	1961.30000	.03640	.03630	.03650	.03640	.03650	.03630	.03630	601.19000
2.250	8.009	-6.07160	1951.30000	.03400	.03380	.03410	.03400	.03400	.03400	.03410	601.19000
2.250	10.062	-6.06970	1960.60001	.03220	.03220	.03210	.03200	.03210	.03230	.03250	600.98000
2.250	12.093	-6.06720	1960.60001	.03120	.03120	.03120	.03120	.03120	.03140	.03150	600.98000
2.250	14.170	-6.06550	1960.60001	.03130	.03130	.03170	.03160	.03170	.03120	.03150	600.98000
2.250	16.297	-6.06470	1960.60001	.03180	.03180	.03180	.03170	.03180	.03170	.03170	600.98000
2.250	18.375	-6.06370	1961.30000	.03110	.03090	.03090	.03110	.03090	.03090	.03090	600.98000
2.250	20.387	-6.06010	1960.60001	.02910	.02950	.02950	.02920	.02970	.02970	.02930	600.98000
2.250	22.460	-6.05730	1960.60001	.02830	.02860	.02860	.02870	.02830	.02860	.02840	600.98000
2.250	24.511	-6.05530	1960.60001	.02660	.02660	.02660	.02660	.02660	.02650	.02650	600.98000
2.250	25.529	-6.05420	1960.60001	.02640	.02700	.02700	.02660	.02700	.02690	.02700	600.98000
GRADIENT			.00027	.00027	.00022	.00005	.00015	.00015	.00015	.00017	.15050

RUN NO. 416/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
2.499	.103	-4.91250	1429.39999	.02910	.02890	.02890	.02860	.02850	.02850	.02850	366.38080
2.499	2.136	-4.94100	1432.89999	.02840	.02820	.02810	.02810	.02820	.02820	.02820	367.28000
2.499	4.174	-4.95020	1432.20000	.02750	.02720	.02720	.02720	.02740	.02720	.02740	367.10000
2.499	6.205	-4.97870	1432.20000	.02710	.02690	.02680	.02690	.02690	.02700	.02700	367.10000
2.499	8.208	-4.99270	1432.89999	.02700	.02680	.02680	.02680	.02680	.02680	.02670	367.28000
2.499	10.293	-5.00160	1432.20000	.02450	.02450	.02450	.02450	.02450	.02450	.02450	367.28000
2.499	12.333	-5.00850	1432.20000	.02430	.02430	.02430	.02430	.02430	.02430	.02430	367.28000
2.499	14.368	-5.00950	1438.60001	.02390	.02360	.02360	.02360	.02370	.02390	.02390	368.73000
2.499	16.411	-5.00880	1440.70000	.02340	.02330	.02330	.02330	.02330	.02320	.02370	369.28000
2.499	18.457	-5.00210	1440.00000	.02250	.02250	.02250	.02230	.02210	.02210	.02210	369.10000
2.499	20.492	-4.99160	1442.89999	.02150	.02120	.02120	.02110	.02110	.02120	.02120	369.28000
2.499	22.540	-4.97910	1441.39999	.02150	.02150	.02150	.02130	.02110	.02130	.02130	369.46000
2.499	24.577	-4.95040	1442.10001	.02070	.02050	.02050	.02050	.02070	.02060	.02070	369.46000
2.499	25.602	-4.95000	1442.10001	.02030	.02000	.02000	.02000	.02020	.02020	.02020	369.46000
GRADIENT			.01171	.00039	.00042	.00005	.00034	.00027	.00032	.00027	.17673

(BE7R13) (02 AUG 76)

TABULATED DATA - 0A16) (ARC 11-97-87-09A)

ARC 11-97-87-09A 0A161 ORBITER

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDCLAR = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 425/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
3.040	.003	-4.87920	1976.80000	.01220	.01220	.01220	.01240	.01250	.01240	.01240	328.02000
3.040	2.033	-4.90400	1975.80000	.01230	.01230	.01230	.01210	.01200	.01210	.01200	328.02000
3.040	4.059	-4.92480	1975.10001	.01130	.01130	.01130	.01150	.01150	.01150	.01130	327.90000
3.040	6.086	-4.94230	1976.80000	.01130	.01120	.01110	.01110	.01110	.01110	.01110	328.02000
3.040	8.118	-4.95350	1976.80000	.01100	.01080	.01080	.01070	.01060	.01070	.01080	328.02000
3.040	10.195	-4.96440	1976.10001	.01060	.01050	.01040	.01040	.01030	.01030	.01040	327.90000
3.040	12.189	-4.97080	1976.80000	.01010	.00990	.00990	.00980	.00970	.00980	.00980	327.90000
3.040	14.224	-4.97190	1976.10001	.00970	.00960	.00960	.00950	.00940	.00950	.00950	328.02000
3.040	16.252	-4.97960	1976.80000	.00930	.00930	.00930	.00930	.00930	.00930	.00930	328.02000
3.040	18.292	-4.98340	1976.80000	.00920	.00910	.00910	.00900	.00900	.00900	.00900	327.90000
3.040	20.349	-4.98340	1976.80000	.00860	.00840	.00830	.00830	.00830	.00830	.00830	327.90000
3.040	22.365	-4.98680	1976.10001	.00810	.00810	.00810	.00810	.00810	.00810	.00810	327.90000
3.040	24.391	-4.92140	1976.10001	.00820	.00820	.00820	.00820	.00820	.00820	.00820	328.02000
3.040	25.409	-4.91070	1975.80000	.00820	.00820	.00820	.00820	.00820	.00820	.00820	328.02000
GRADIENT				.00022	.00022	.00022	.00022	.00022	.00022	.00022	.02956

RUN NO. 426/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
3.498	-1.108	-5.09700	2645.20001	.00740	.00720	.00720	.00710	.00720	.00720	.00720	297.70000
3.499	1.834	-5.11870	2642.39999	.00730	.00730	.00730	.00710	.00710	.00710	.00720	297.30000
3.499	3.856	-5.13980	2641.70001	.00650	.00650	.00650	.00630	.00630	.00630	.00630	297.30000
3.499	5.888	-5.15920	2643.10001	.00630	.00630	.00630	.00640	.00640	.00630	.00630	297.30000
3.499	7.909	-5.17750	2641.20001	.00600	.00590	.00590	.00590	.00590	.00590	.00590	297.30000
3.499	9.947	-5.17800	2642.39999	.00550	.00550	.00550	.00550	.00550	.00550	.00550	297.30000
3.499	11.965	-5.18540	2640.89999	.00500	.00500	.00500	.00500	.00500	.00500	.00500	297.30000
3.499	13.998	-5.18950	2642.39999	.00550	.00550	.00550	.00530	.00530	.00530	.00530	297.30000
3.499	16.035	-5.19520	2639.50000	.00530	.00520	.00520	.00530	.00530	.00530	.00530	297.30000
3.499	18.061	-5.19650	2642.39999	.00530	.00520	.00520	.00520	.00520	.00520	.00520	297.30000
3.499	20.087	-5.19850	2642.39999	.00510	.00510	.00510	.00510	.00510	.00510	.00510	297.30000
3.499	22.118	-5.19420	2641.70001	.00480	.00480	.00480	.00480	.00480	.00480	.00480	297.30000
3.499	24.147	-5.19570	2640.20001	.00450	.00450	.00450	.00450	.00450	.00450	.00450	297.30000
3.499	26.170	-5.12480	2641.70001	.00480	.00480	.00480	.00480	.00480	.00480	.00480	297.30000
GRADIENT				.00022	.00017	.00020	.00020	.00022	.00022	.00022	.02956

(BETRM) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

RUN NO. 30/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SPEC = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO.
LREF = 474.8000 IN. YMRP = .0000 IN. YO.
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0360

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
.598	.084	-1.84760	2584.29999	.74680	.74680	.74680	.74680	.74680	.74730	.74050	.74050
.599	2.128	-1.85510	2593.00000	.74680	.74680	.74680	.74680	.74680	.74840	.74310	.74310
.600	4.182	-1.86370	2595.00000	.74680	.74680	.74680	.74680	.74680	.74710	.74450	.74450
.597	6.257	-1.84520	2595.00000	.74740	.74740	.74740	.74740	.74740	.74530	.74540	.74540
.598	8.342	-1.94450	2595.00000	.74650	.74650	.74650	.74650	.74650	.74590	.74610	.74610
.597	10.452	-1.84150	2595.00000	.74680	.74680	.74680	.74680	.74680	.74590	.74560	.74560
.599	12.576	-1.82920	2595.00000	.74570	.74570	.74570	.74570	.74570	.74590	.74480	.74480
.597	14.666	-1.85920	2594.29999	.74370	.74370	.74370	.74370	.74370	.74430	.74220	.74220
.599	16.802	-1.85920	2594.29999	.73640	.73640	.73640	.73640	.73640	.73710	.73650	.73650
.597	18.927	-1.85920	2594.29999	.73170	.73170	.73170	.73170	.73170	.73240	.73200	.73200
.596	21.044	-1.85110	2595.00000	.72810	.72810	.72810	.72810	.72810	.72850	.72790	.72790
.597	23.129	-1.84630	2595.00000	.72380	.72380	.72380	.72380	.72380	.72330	.72270	.72270
.599	25.204	-1.92160	2595.00000	.71730	.71730	.71730	.71730	.71730	.71610	.72200	.72200
.597	26.100	-1.77990	2595.00000	.71740	.71740	.71740	.71740	.71740	.71510	.72000	.72000
GRADIENT		.00096	.17066	.00002	.00007	.00000	.00002	.00013	.00005	.00098	.00098

RUN NO. 35/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
.598	.037	-1.87870	2345.29999	.67360	.67360	.67360	.67360	.67360	.67270	.67540	.67540
.599	2.127	-1.85290	2345.29999	.67240	.67240	.67240	.67240	.67240	.67290	.67370	.67370
.600	4.193	-1.83360	2344.60001	.67220	.67220	.67220	.67220	.67220	.67300	.69160	.69160
.595	6.283	-1.83360	2344.60001	.67400	.67400	.67400	.67400	.67400	.67540	.68420	.68420
.595	8.395	-1.84710	2345.29999	.67250	.67250	.67250	.67250	.67250	.67400	.67670	.67670
.597	10.511	-1.83760	2345.29999	.67130	.67130	.67130	.67130	.67130	.67030	.67560	.67560
.597	12.329	-1.82300	2344.60001	.67020	.67020	.67020	.67020	.67020	.66930	.67310	.67310
.597	12.722	-1.83620	2344.60001	.66640	.66640	.66640	.66640	.66640	.66920	.67280	.67280
.599	14.739	-1.81440	2344.60001	.66500	.66500	.66500	.66500	.66500	.66530	.67110	.67110
.597	16.681	-1.87450	2344.60001	.66160	.66160	.66160	.66160	.66160	.66221	.66310	.66310
.595	18.016	-1.87560	2344.60001	.65630	.65630	.65630	.65630	.65630	.65600	.65671	.65671
.595	21.151	-1.86970	2344.60001	.65540	.65540	.65540	.65540	.65540	.65320	.65780	.65780
.595	23.251	-1.85990	2344.60001	.64610	.64610	.64610	.64610	.64610	.64640	.64570	.64570
.596	25.293	-1.85200	2343.89999	.63110	.63110	.63110	.63110	.63110	.63450	.64570	.64570
.599	25.248	-1.77220	2343.89999	.62280	.62280	.62280	.62280	.62280	.62470	.63720	.63720
GRADIENT		.00855	.17136	.00030	.00002	.00000	.00003	.00005	.00007	.00819	.00819

(BETRIW) (02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ANLON = .000 BOFLAP = .170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEC = 2883.0000 SQ.FT. XMRP = 1076.6808 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 424 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q15SF1
.738	.082	-1.89950	2206.0000	.59640	.59580	.59520	.59630	.59520	.59660	.57900	646.14000
.739	2.131	-1.86500	2205.7500	.59540	.59470	.59400	.59550	.59560	.59570	.59700	647.64000
.739	4.214	-1.85390	2207.3899	.59640	.59590	.59540	.59630	.59560	.59590	.59700	646.22000
.739	6.325	-1.84360	2207.3999	.59730	.59680	.59630	.59660	.59740	.59540	.59510	646.71000
.739	8.431	-1.84770	2208.1000	.59670	.59690	.59490	.59610	.59640	.59470	.59370	646.72000
.739	10.556	-1.83970	2208.1000	.59430	.59480	.59400	.59480	.59430	.59470	.59280	646.27000
.738	12.681	-1.83370	2208.7939	.59480	.59620	.59620	.59610	.59680	.59120	.59310	647.26000
.738	14.792	-1.82290	2208.1000	.59480	.59620	.59620	.59620	.59630	.59330	.59300	647.23000
.738	16.961	-1.87900	2206.7939	.57940	.57940	.57940	.57940	.57930	.57930	.58120	647.28000
.738	19.112	-1.87240	2208.7939	.57470	.57490	.57160	.57650	.57590	.57590	.58120	647.28000
.737	21.253	-1.86340	2208.7939	.56720	.56700	.56780	.56760	.56720	.56720	.57480	645.82000
.737	23.336	-1.84570	2208.7939	.55410	.55300	.55370	.55370	.55390	.55390	.56780	646.30000
.739	25.357	-1.82470	2208.7939	.53410	.53280	.53410	.52970	.53090	.52930	.54110	647.28000
.738	26.313	-1.78400	2208.7939	.52670	.52650	.52580	.52590	.52650	.52610	.54070	647.28000
	GRADIENT	.00861	.33884	.00000	-.00007	-.00014	.00000	.00007	-.00017	.00283	.07746

RUN NO. 45/ 0 RM/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q15SF1
.847	.063	-1.86340	2155.7939	.55580	.55840	.55530	.55380	.55480	.55380	.53750	677.25000
.848	2.135	-1.86080	2156.5900	.55540	.55690	.55560	.55540	.55500	.55410	.53750	678.69000
.847	4.229	-1.85240	2155.7939	.55780	.55770	.55820	.55780	.55670	.55730	.53200	677.25000
.847	6.338	-1.84670	2157.2000	.55640	.55710	.55830	.55780	.55670	.55590	.53240	677.35000
.847	8.444	-1.84150	2156.5900	.55690	.55660	.55750	.55610	.55670	.55560	.53410	678.85000
.847	10.574	-1.83050	2156.5900	.55560	.55490	.55490	.55370	.55290	.55280	.53410	677.77000
.849	12.701	-1.83810	2157.2000	.54940	.55130	.54980	.54850	.54810	.54610	.53410	678.26000
.847	14.815	-1.83430	2157.2000	.54440	.54450	.54370	.54340	.54320	.54370	.53410	677.31000
.849	16.985	-1.87790	2157.2000	.53900	.53850	.53830	.53830	.53850	.53840	.53750	678.73000
.847	19.145	-1.87670	2157.8939	.53180	.53320	.53170	.53190	.53170	.53180	.53750	677.41000
.846	21.274	-1.86540	2157.2000	.52250	.52120	.52070	.51930	.51980	.52120	.53230	676.45000
.846	23.372	-1.85220	2157.2000	.50460	.50490	.50410	.50490	.50350	.50370	.51630	676.91000
.847	25.397	-1.83610	2157.2000	.48210	.48400	.48250	.48310	.48260	.48210	.50340	677.82000
.849	26.363	-1.79210	2157.2000	.47890	.47630	.47720	.47720	.47720	.47720	.49220	678.28000
	GRADIENT	.00264	-.00032	.00048	.00055	.00069	.00096	.00046	.00050	.00299	-.00054

(BETRI4) 12 AUG 76

ARC 11-97-87-884 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILRON = .000 DEFZAP = -7.170

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.932	.083	-1.90310	2127.50000	.51440	.51550	.51600	.51650	.51640	.51680	.48360	714.81000
.932	2.158	-1.87480	2127.50000	.51570	.51500	.51360	.51400	.51510	.51540	.50310	714.81000
.899	4.250	-1.86130	2127.50000	.51780	.51780	.51700	.51770	.51770	.51610	.50880	712.71000
.900	6.351	-1.84870	2128.20001	.51740	.51730	.51630	.51630	.51700	.51620	.51190	713.21000
.899	8.466	-1.84550	2126.79999	.51810	.51780	.51630	.51780	.51810	.51900	.51440	711.79000
.900	10.607	-1.83960	2128.20001	.51300	.51240	.51150	.51290	.51280	.51370	.51370	713.64000
.900	12.735	-1.83510	2128.20001	.50710	.50720	.50660	.50660	.50680	.50540	.50910	713.64000
.900	14.861	-1.82660	2127.50000	.50290	.50060	.50030	.50000	.50230	.50270	.50560	713.15000
.900	17.041	-1.81970	2127.50000	.49520	.49550	.49390	.49310	.49450	.49450	.50100	713.15000
.893	19.211	-1.81120	2127.50000	.48440	.48520	.48650	.48500	.48450	.48310	.49200	712.71000
.902	21.354	-1.87480	2129.60001	.45550	.46550	.46430	.46520	.46570	.46540	.48330	715.64000
.897	23.427	-1.85470	2127.50000	.44950	.45320	.45110	.45220	.44870	.44770	.46610	712.93000
.901	25.491	-1.82380	2128.20001	.42390	.43040	.43050	.43180	.43170	.43100	.45120	714.46000
.902	26.491	-1.77350	2128.20001	.42620	.42820	.42610	.42620	.42570	.42310	.45200	715.29000
	GRADIENT	.01003	-.00002	.00082	.00055	.00041	.00029	.00055	-.00017	.00355	-.52463

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.950	.061	-1.85610	2085.70001	.46470	.46290	.46330	.46460	.46690	.46700	.44480	737.13000
.951	2.164	-1.87030	2085.00000	.46440	.46430	.46400	.46330	.46210	.46430	.45390	737.84000
.948	4.269	-1.85910	2084.29999	.46520	.46540	.46470	.46570	.46750	.46760	.46030	738.43000
.949	6.394	-1.85120	2085.70001	.46520	.46640	.46490	.46530	.46530	.46330	.46120	738.97000
.949	8.518	-1.84570	2085.20000	.46890	.46730	.46900	.46900	.46820	.46820	.46350	735.89000
.949	10.660	-1.83150	2085.70001	.45980	.46050	.46390	.46050	.45980	.45970	.46090	735.97000
.949	12.796	-1.81170	2085.70001	.45620	.45670	.45540	.45500	.45140	.44580	.45560	735.97000
.949	14.929	-1.85640	2085.00000	.44430	.44360	.44330	.44170	.44230	.44560	.45000	735.51000
.949	17.128	-1.91230	2085.00000	.43420	.43490	.43390	.43520	.43490	.43330	.44300	735.51000
.946	19.236	-1.90580	2085.70001	.42800	.42910	.42850	.42830	.42650	.42750	.43550	735.51000
.947	21.440	-1.87580	2085.70001	.41740	.41690	.41560	.41450	.41620	.42750	.42750	735.21000
.946	23.525	-1.86860	2085.00000	.40090	.39860	.39740	.39890	.39820	.39900	.41490	735.36000
.946	25.586	-1.81360	2085.00000	.38560	.38500	.38460	.38440	.38420	.38420	.40100	733.97000
.946	26.576	-1.78120	2085.70001	.37820	.37850	.37830	.37920	.37950	.37950	.39370	733.97000
	GRADIENT	-.00047	-.33273	.00069	.00059	.00033	.00059	.00014	.00014	.00358	-.42412

(BETRI4) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ATLON = .000 BDELAP = -7.170

TABULATED DATA - OATET (ARC 11-97-87-094)

ARC 11-97-87-094 OATET

REFERENCE DATA

SPEF = 2580.0900 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 956.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 634 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.981	.092	-1.89900	2073.70001	.42490	.42440	.42430	.42400	.42580	.42370	.40540	754.44000
.980	2.172	-1.87160	2073.00000	.42410	.42430	.42490	.42640	.42550	.42480	.41480	753.24000
.979	6.274	-1.86280	2076.50000	.42658	.42420	.42450	.42570	.42460	.42540	.41930	754.42000
.978	6.403	-1.84810	2077.29999	.42030	.42030	.41920	.1860	.41920	.42200	.42120	754.50000
.977	8.539	-1.83520	2074.39999	.41950	.41790	.41950	.41990	.41720	.42020	.42120	752.29000
.976	10.692	-1.81750	2075.10001	.41790	.41680	.41800	.41740	.41650	.41630	.41910	752.75000
.975	12.849	-1.81010	2076.00000	.41290	.41210	.41000	.40760	.40750	.40800	.41390	754.96000
.974	14.978	-1.83410	2075.10001	.40720	.40740	.40300	.40320	.40270	.40400	.41010	752.75000
.973	17.185	-1.90260	2075.10001	.39840	.39810	.39860	.39880	.39790	.39810	.40380	753.12000
.972	19.359	-1.88280	2077.29999	.38980	.39150	.39040	.39040	.39190	.39030	.39750	753.76000
.971	21.496	-1.87600	2072.29999	.39130	.39160	.39160	.37340	.37010	.37040	.38450	749.04000
.970	23.616	-1.84820	2078.00000	.37220	.37330	.37160	.37340	.37010	.37040	.38390	753.47000
.969	25.660	-1.81410	2074.39999	.35770	.35770	.35820	.35760	.35740	.35850	.37270	752.67000
.968	26.647	-1.77430	2073.70001	.35170	.35110	.35060	.35040	.35010	.35040	.36350	752.59000
.978	GRADIENT	.00865	.67117	.00038	-.09005	.00095	.00041	-.00031	.00041	.00332	-.00384

RUN NO. 664 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.054	.065	-1.85270	2039.89000	.35940	.35850	.35950	.35790	.36010	.36070	.34550	785.92000
1.051	2.178	-1.86470	2039.80000	.35908	.35978	.35980	.35870	.36000	.35850	.35180	784.04000
1.052	4.290	-1.84350	2043.30000	.35880	.35880	.35930	.35940	.35860	.35850	.35470	786.48000
1.049	6.419	-1.85210	2039.10001	.35870	.35870	.35870	.35998	.35860	.35860	.35740	782.99000
1.046	8.568	-1.84190	2038.39999	.35920	.35020	.35870	.35980	.35780	.35670	.35770	780.98000
1.052	10.721	-1.82490	2044.00000	.35100	.35150	.35090	.35130	.35020	.35260	.35410	786.60000
1.047	12.854	-1.81710	2039.10001	.34980	.35000	.35100	.34980	.34900	.34870	.35260	781.72000
1.049	15.017	-1.85010	2039.10001	.34390	.34408	.34478	.34330	.34260	.34280	.34878	784.72000
1.046	17.238	-1.90210	2044.00000	.33690	.33610	.33480	.33450	.33480	.33600	.34238	781.99000
1.045	19.416	-1.88440	2040.50000	.33280	.33280	.33210	.33280	.33348	.33230	.33790	780.25000
1.044	21.576	-1.88090	2039.80000	.32380	.32450	.32290	.32280	.32280	.32300	.33100	780.76000
1.051	23.697	-1.86760	2043.30000	.31820	.31760	.31720	.31690	.31660	.31660	.32420	785.44000
1.051	25.768	-1.82970	2042.60001	.30910	.30910	.30780	.30840	.30810	.30710	.31660	782.78000
1.048	26.753	-1.76710	2039.80000	.30310	.30330	.30260	.30320	.30390	.30320	.31080	782.78000
1.048	GRADIENT	.00218	.82845	.00012	.00007	-.08005	.00036	-.00036	-.00090	.00218	.13460

(BETRM) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA =
ALTRON =
-2.000 ELEVON = .000
.000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 478.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
1.100	.086	-1.90230	2013.68001	.33530	.33630	.33640	.33570	.33520	.33600	.33620	.33620
1.100	2.170	-1.86700	2014.30000	.33570	.33610	.33570	.33570	.33570	.33610	.33620	.33620
1.100	4.289	-1.83850	2015.00000	.33410	.33470	.33450	.33450	.33450	.33450	.33480	.33480
1.098	6.416	-1.84620	2014.30000	.33420	.33400	.33400	.33430	.33400	.33400	.33400	.33400
1.098	8.559	-1.83520	2015.00000	.33250	.33300	.33250	.33240	.33250	.33250	.33210	.33210
1.098	10.719	-1.82530	2015.00000	.33050	.33050	.33050	.33040	.33050	.33020	.33030	.33030
1.098	12.871	-1.81090	2014.30000	.32670	.32660	.32640	.32620	.32580	.32580	.32580	.32580
1.097	15.031	-1.85350	2015.00000	.31920	.31930	.31900	.31880	.31930	.31850	.31860	.31860
1.097	17.249	-1.93770	2014.30000	.31540	.31550	.31580	.31610	.31650	.31600	.31600	.31600
1.099	19.427	-1.83750	2015.70000	.31040	.31050	.31100	.31050	.31050	.30980	.30950	.30950
1.099	21.581	-1.87346	2017.10001	.30160	.30190	.30190	.30150	.30190	.30160	.30950	.30950
1.099	23.694	-1.86710	2016.39999	.30010	.30050	.30030	.30050	.30070	.30040	.30600	.30600
1.099	25.782	-1.82550	2015.70000	.28880	.28830	.28830	.28810	.28770	.28820	.29840	.29840
1.098	26.770	-1.75880	2015.00000	.28580	.28590	.28570	.28580	.28560	.28620	.29310	.29310
		.01517	.33308	-.00057	-.00038	-.00045	-.00029	-.00033	-.00033	.00185	.00185

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
1.150	.080	-1.86070	2001.68001	.31000	.30950	.31130	.31090	.31120	.31170	.30950	.30950
1.150	2.180	-1.86400	2002.30000	.30940	.30930	.30910	.31020	.30940	.30870	.30480	.30480
1.150	4.270	-1.85000	2005.10001	.30660	.30650	.30910	.30800	.30860	.30780	.30570	.30570
1.148	6.402	-1.85520	2005.00000	.30510	.30720	.30840	.30860	.30690	.30550	.30610	.30610
1.148	8.549	-1.84070	2004.39999	.30540	.30410	.30490	.31590	.30670	.30570	.30570	.30570
1.148	10.714	-1.82780	2003.70000	.30300	.30310	.30440	.30460	.30500	.30440	.30440	.30440
1.147	12.865	-1.82300	2003.70000	.30060	.30240	.29990	.30080	.30090	.29900	.30170	.30170
1.148	15.022	-1.85900	2003.00000	.29710	.29640	.29720	.29740	.29670	.29500	.29500	.29500
1.149	17.237	-1.90890	2004.39999	.29110	.29170	.29060	.29040	.29110	.29060	.29320	.29320
1.151	19.411	-1.88330	2005.10001	.28930	.28990	.29040	.29020	.28930	.28950	.28880	.28880
1.151	21.555	-1.88230	2005.10001	.28350	.28440	.28410	.28340	.28430	.28490	.28680	.28680
1.150	23.681	-1.86080	2003.90000	.28250	.28200	.28270	.28270	.28240	.28190	.28650	.28650
1.150	25.779	-1.83030	2004.39999	.26990	.26980	.26980	.27050	.27010	.27110	.27250	.27250
1.146	25.787	-1.77950	2003.70000	.27250	.27200	.27220	.27140	.27160	.27230	.27640	.27640
		.00259	.83186	-.00081	-.00071	-.00052	-.00059	-.00058	-.00078	.00121	.00121

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETRIAL) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AHLROM = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XG
LRDF = 474.8000 IN. YMRP = .0000 IN. YG
BRDF = 936.6800 IN. ZMRP = 375.0000 IN. ZG
SCALE = .0300

RUN NO. 834 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.281	.084	-1.89680	2007.20000	.28060	.28050	.28050	.28000	.27960	.28040	.27290	834.59000
1.202	2.153	-1.87610	2007.89999	.27970	.28060	.28120	.27980	.27980	.27990	.27610	835.16000
1.199	4.262	-1.87400	2007.20000	.27980	.28060	.27980	.27910	.28000	.27900	.27750	834.01000
1.198	6.390	-1.85460	2006.50000	.27840	.27720	.27780	.27730	.27770	.27710	.27750	833.44000
1.196	8.549	-1.82470	2007.89999	.27780	.27810	.27830	.27770	.27770	.27720	.27720	833.40000
1.192	10.711	-1.81900	2007.20000	.27530	.27510	.27510	.27540	.27520	.27520	.27410	833.62000
1.197	12.861	-1.86560	2007.20000	.27170	.27210	.27200	.27110	.27150	.27150	.26930	833.42000
1.202	15.014	-1.86360	2007.89999	.26400	.26400	.26380	.26430	.26370	.26370	.26580	834.40000
1.200	17.231	-1.93200	2007.20000	.25980	.26080	.26010	.25970	.26060	.25910	.26240	833.69000
1.197	19.408	-1.89700	2007.89999	.25960	.25980	.25900	.25920	.25900	.25850	.26080	833.60000
1.197	21.559	-1.88270	2007.89999	.25790	.25880	.25820	.25810	.25860	.25700	.25930	833.60000
1.197	23.682	-1.86750	2007.89999	.25760	.25740	.25620	.25640	.25570	.25420	.25430	833.60000
1.195	25.784	-1.83630	2007.89999	.25030	.25020	.24990	.24950	.24990	.24610	.25070	833.97000
1.197	26.811	-1.81110	2008.50001	.24740	.24740	.24720	.24760	.24640	.24610	.24610	833.97000
	GRADIENT	.00544	-.00156	-.00037	-.00039	-.00039	-.00022	.00010	-.00034	.00110	-.14011

RUN NO. 864 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.299	.039	-1.85990	2004.39999	.23340	.23350	.23340	.23350	.23350	.23340	.22520	855.64000
1.299	2.131	-1.85150	2003.70000	.23210	.23210	.23190	.23270	.23200	.23270	.22860	855.41000
1.299	4.236	-1.86060	2003.70000	.23340	.23260	.23340	.23220	.23200	.23260	.22990	855.32000
1.296	6.364	-1.85660	2005.10001	.23120	.23136	.23020	.23120	.23110	.23070	.23000	855.75000
1.296	8.512	-1.84090	2005.10001	.22930	.22950	.22960	.22960	.22960	.23010	.22990	855.52000
1.295	10.673	-1.84050	2004.39999	.22880	.22800	.22960	.22810	.22860	.22780	.22860	855.06000
1.295	12.821	-1.84080	2004.39999	.22520	.22490	.22510	.22500	.22420	.22410	.22410	855.40000
1.295	14.976	-1.86360	2005.10001	.22070	.22150	.22180	.22090	.22090	.22100	.22250	859.18000
1.296	17.182	-1.90540	2004.39999	.21930	.22010	.22030	.21960	.22020	.21950	.21980	854.94000
1.294	19.354	-1.89840	2004.39999	.21710	.21690	.21690	.21690	.21670	.21660	.21810	854.95000
1.293	21.520	-1.89540	2005.10001	.21650	.21630	.21660	.21610	.21670	.21700	.21610	855.18000
1.293	23.641	-1.86290	2005.10001	.21280	.21270	.21240	.21210	.21250	.21300	.21330	855.63000
1.295	25.757	-1.82970	2005.60000	.20930	.20980	.20980	.20960	.21010	.21010	.21330	855.63000
1.295	26.799	-1.82750	2005.10001	.20600	.20600	.20570	.20590	.20610	.20570	.21300	856.29000
	GRADIENT	-.00017	-.16663	-.00024	-.00024	.00000	-.00005	-.00031	-.00019	.00112	-.06099

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

(BE7R14) (02 AUG 75)

REFERENCE DATA

SREF = 2635.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8800 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFCAP = -7.170

RUN NO. 93/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.401	.049	-1.8860	2046.80000	.19470	.19510	.19560	.19490	.19510	.19500	.19040	882.50000
1.401	2.119	-1.86330	2043.00000	.19420	.19430	.19420	.19390	.19390	.19410	.19150	883.41000
1.402	4.213	-1.84060	2048.29999	.19400	.19400	.19350	.19310	.19350	.19380	.19270	883.11000
1.399	6.336	-1.87680	2048.29999	.19450	.19370	.19360	.19380	.19360	.19320	.19330	883.07000
1.399	8.483	-1.85530	2049.00000	.19290	.19340	.19340	.19330	.19310	.19300	.19310	883.37000
1.392	10.648	-1.82440	2049.00000	.19030	.19030	.18990	.19030	.19010	.19000	.19200	883.39000
1.397	12.783	-1.83190	2049.00000	.18700	.18680	.18680	.18700	.18730	.18760	.19010	883.32000
1.398	14.932	-1.87970	2049.00000	.18600	.18630	.18580	.18560	.18540	.18580	.18690	883.37000
1.394	17.145	-1.91350	2049.00000	.18440	.18440	.18490	.18470	.18490	.18510	.18690	883.37000
1.397	19.323	-1.88740	2049.00000	.18290	.18290	.18320	.18330	.18340	.18340	.18530	883.37000
1.397	21.483	-1.86890	2049.00000	.18350	.18340	.18350	.18310	.18350	.18340	.18430	883.32000
1.398	23.608	-1.83360	2049.70001	.18250	.18250	.18190	.18230	.18250	.18270	.18380	883.66000
1.398	25.732	-1.83100	2049.70001	.17750	.17720	.17680	.17670	.17720	.17720	.18100	883.84000
1.398	26.778	-1.80490	2048.29999	.17300	.17290	.17290	.17260	.17250	.17300	.17760	882.99000
1.395	GRADIENT	.0153	.55893	-.00017	-.00026	-.00050	-.00043	-.00038	-.00029	.00055	.14586

RUN NO. 322/ 0 RN/L = 3.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.556	.026	-2.58940	1512.10001	.14630	.14650	.14670	.14630	.14620	.14670	.14620	643.37000
1.556	2.023	-2.58750	1512.89999	.14540	.14650	.14660	.14650	.14640	.14650	.14670	643.67000
1.556	4.098	-2.58910	1511.39999	.14590	.14560	.14510	.14520	.14510	.14490	.14490	643.07000
1.556	6.169	-2.58890	1512.89999	.14430	.14500	.14470	.14480	.14430	.14420	.14470	643.67000
1.556	8.244	-2.58790	1512.89999	.14130	.14180	.14170	.14180	.14180	.14200	.14200	643.67000
1.556	12.354	-2.58710	1512.89999	.13600	.13500	.13520	.13500	.13520	.13540	.13470	643.67000
1.556	14.439	-2.58320	1512.10001	.13200	.13200	.13190	.13170	.13150	.13190	.13190	643.37000
1.555	18.682	-2.58140	1515.70000	.13040	.13040	.12980	.13080	.13020	.13020	.13020	644.88000
1.555	20.715	-2.57870	1516.39999	.12760	.12750	.12700	.12700	.12660	.12680	.12670	645.18000
1.555	22.798	-2.57510	1515.00000	.12340	.12320	.12350	.12320	.12310	.12310	.12310	644.58000
1.555	24.863	-2.57080	1515.70000	.11430	.11430	.11400	.11430	.11430	.11460	.11460	644.88000
1.555	25.892	-2.57040	1516.39999	.11250	.11250	.11250	.11260	.11270	.11210	.11210	645.18000
1.552	GRADIENT	-.00018	-.17545	-.00032	-.00022	-.00040	-.00027	-.00027	-.00044	-.00032	-.07506

(18E7R14) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8800 IN. YMRP = .0000 IN. YO
BREF = 938.6800 IN. ZMRP = 375.0680 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .008
ATLPRN = .000 BOFLAP = -7.170

RUN NO. 329# 0 RWL = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.750	-1.155	-2.40120	1649.39999	.10280	.10270	.10280	.10280	.10269	.10330	.10310	664.00000
1.750	.065	-2.41380	1650.10001	.10360	.10350	.10370	.10370	.10360	.10360	.10350	664.25000
1.750	1.821	-2.40490	1650.10001	.10350	.10370	.10370	.10380	.10380	.10330	.10330	664.25000
1.750	3.883	-2.40770	1649.39999	.10360	.10340	.10340	.10310	.10310	.10310	.10310	664.00000
1.750	5.944	-2.40770	1649.39999	.10280	.10310	.10300	.10310	.10260	.10300	.10290	664.00000
1.750	10.122	-2.40770	1649.39999	.09720	.09720	.09720	.09750	.09720	.09720	.09740	664.00000
1.750	12.127	-2.40590	1650.80000	.09530	.09530	.09520	.09530	.09530	.09500	.09500	664.57000
1.750	14.167	-2.40650	1649.39999	.09420	.09430	.09430	.09420	.09400	.09380	.09380	664.00000
1.750	16.265	-2.40470	1649.39999	.09370	.09380	.09330	.09340	.09330	.09340	.09340	664.00000
1.750	18.379	-2.40120	1649.39999	.09230	.09240	.09260	.09270	.09270	.09230	.09230	664.00000
1.750	20.395	-2.40090	1649.39999	.09000	.09000	.09000	.09020	.09030	.09050	.09030	664.00000
1.750	22.471	-2.39740	1650.10001	.08460	.08460	.08460	.08460	.08460	.08480	.08460	664.28000
1.750	24.528	-2.39430	1649.39999	.08060	.08060	.08060	.08060	.08060	.08050	.08050	664.00000
1.750	25.544	-2.39120	1649.39999	.07920	.07950	.07920	.07910	.07910	.07900	.07940	664.00000
	GRADIENT	.00007	-.06114	.00011	.00010	.00011	.00016	.00004	-.00009	.00015	-.02446

RUN NO. 332/ 0 RWL = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.997	-1.142	-2.93880	1814.89999	.05940	.06010	.05970	.05980	.06850	.05980	.05970	650.65000
1.997	1.784	-2.93620	1812.70000	.06060	.06060	.06020	.06020	.06030	.06020	.06020	649.89000
1.997	3.731	-2.93480	1814.89999	.06080	.06080	.06090	.06090	.06080	.06110	.06080	650.65000
1.997	6.125	-2.93350	1814.89999	.06080	.06090	.06070	.06080	.06070	.06070	.06070	650.65000
1.997	10.252	-2.93330	1814.10001	.05700	.05560	.05670	.05660	.05650	.05670	.05670	650.39000
1.997	14.385	-2.93350	1814.89999	.05460	.05460	.05430	.05430	.05400	.05410	.05440	650.65000
1.997	16.537	-2.93380	1814.89999	.05350	.05360	.05330	.05340	.05340	.05380	.05380	650.65000
1.997	18.626	-2.93280	1814.10001	.05230	.05210	.05210	.05220	.05180	.05230	.05230	650.39000
1.997	20.653	-2.92560	1814.10001	.04940	.04920	.04930	.04950	.04930	.04920	.04950	650.39000
1.997	22.719	-2.92250	1815.60001	.04990	.04990	.04990	.04980	.04980	.04940	.04940	650.65000
1.997	24.800	-2.91920	1814.89999	.04730	.04670	.04680	.04700	.04680	.04710	.04650	650.65000
1.997	25.368	-2.91760	1815.60001	.04690	.04680	.04680	.04660	.04740	.04700	.04730	650.90000
	GRADIENT	.00103	-.00587	.00039	.00018	.00031	.00020	.00034	.00034	.00028	.00205

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETRYM) (02 AUG 76)

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA =
AIRLON =
-2.000 ELEVON = .000
.000 BBFLAP = -7.170

RUN NO. 348/ 0 RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
2.250	-1.133	-3.03390	1940.00000	.03750	.03800	.03780	.03760	.03740	.03760	.03740	594.69000
2.250	1.849	-3.03220	1934.39999	.03690	.03670	.03650	.03650	.03670	.03650	.03690	592.95000
2.250	3.900	-3.03120	1937.20000	.03610	.03620	.03620	.03610	.03600	.03580	.03610	593.82000
2.250	5.951	-3.03130	1940.70000	.03660	.03610	.03630	.03600	.03600	.03600	.03600	594.81000
2.250	8.005	-3.03120	1942.20000	.03520	.03540	.03520	.03520	.03510	.03520	.03520	595.34000
2.250	10.056	-3.02950	1942.89999	.03310	.03300	.03300	.03300	.03300	.03300	.03320	595.56000
2.250	12.087	-3.02800	1943.60001	.03150	.03150	.03160	.03150	.03150	.03150	.03140	597.29000
2.250	14.162	-3.02690	1948.50000	.03120	.03190	.03180	.03150	.03120	.03100	.03100	597.72000
2.250	16.289	-3.02620	1949.89999	.03130	.03140	.03060	.03040	.03040	.02940	.02960	597.94000
2.250	18.364	-3.02380	1949.89999	.03090	.03100	.02930	.02910	.02930	.02770	.02770	597.94000
2.250	20.375	-3.02260	1950.70000	.02920	.02730	.02760	.02730	.02730	.02850	.02850	597.72000
2.250	22.446	-3.01800	1950.70000	.02760	.02860	.02890	.02860	.02860	.02780	.02780	598.37000
2.250	24.499	-3.01580	1949.89999	.02890	.02830	.02830	.02810	.02800	.02750	.02750	-21197
2.250	25.517	-3.01430	1952.10001	.02830	.02830	.02830	.02810	.02800	.02780	.02780	-21197
2.250	GRADIENT	.00067	-66219	-.00035	-.00045	-.00045	-.00037	-.00035	-.00045	-.00032	

RUN NO. 417/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
2.499	.117	-1.94050	1449.89999	.02950	.02940	.02930	.02900	.02900	.02930	.02950	371.63000
2.499	2.151	-1.95220	1449.20000	.02870	.02860	.02870	.02890	.02860	.02860	.02850	371.45000
2.499	4.178	-1.95950	1449.89999	.02790	.02780	.02780	.02790	.02790	.02780	.02790	371.63000
2.499	6.214	-1.95710	1449.20000	.02840	.02810	.02820	.02810	.02809	.02780	.02780	371.45000
2.499	8.255	-1.97330	1449.20000	.02730	.02720	.02760	.02690	.02710	.02729	.02720	371.45000
2.499	10.291	-1.97840	1449.20000	.02620	.02600	.02600	.02580	.02590	.02550	.02580	371.45000
2.499	12.332	-1.99300	1449.89999	.02440	.02430	.02420	.02430	.02430	.02440	.02440	371.63000
2.499	14.379	-1.99380	1449.89999	.02430	.02420	.02410	.02410	.02380	.02400	.02400	371.63000
2.499	16.417	-1.99350	1449.89999	.02370	.02360	.02350	.02370	.02350	.02350	.02320	371.63000
2.499	18.459	-1.99180	1449.89999	.02320	.02320	.02320	.02310	.02220	.02300	.02300	371.63000
2.499	20.505	-1.97800	1449.89999	.02220	.02220	.02220	.02220	.02250	.02230	.02250	371.63000
2.499	22.548	-1.97550	1449.89999	.02190	.02190	.02190	.02190	.02200	.02180	.02190	371.63000
2.499	24.590	-1.95860	1449.89999	.02200	.02170	.02180	.02170	.02170	.02180	.02150	371.63000
2.499	25.613	-1.96440	1449.89999	.02140	.02130	.02130	.02140	.02140	.02130	.02130	-21197
2.499	GRADIENT	-.00468	-30021	-.00039	-.00039	-.00037	-.00027	-.00027	-.00032	-.00034	

(BE7R14) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 424/ 0 RNAL = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(P5F)
3.493	1.045	-1.86580	1976.80000	.01270	.01250	.01260	.01260	.01260	.01260	.01240	328.02000
3.493	2.065	-1.87620	1975.80000	.01280	.01220	.01210	.01210	.01210	.01210	.01210	328.02000
3.493	4.097	-1.88680	1976.80000	.01180	.01170	.01180	.01180	.01180	.01180	.01170	328.02000
3.493	6.123	-1.89250	1976.80000	.01180	.01180	.01160	.01150	.01150	.01160	.01160	328.02000
3.493	8.153	-1.90000	1976.80000	.01120	.01110	.01110	.01120	.01120	.01120	.01110	328.02000
3.493	10.187	-1.90250	1976.80000	.01060	.01040	.01040	.01040	.01060	.01060	.01060	328.02000
3.493	12.217	-1.90780	1976.80000	.01000	.00980	.00990	.00990	.01000	.01000	.01000	328.02000
3.493	14.256	-1.90760	1976.80000	.00950	.00950	.00930	.00930	.00950	.00950	.00950	328.02000
3.493	16.290	-1.90900	1976.80000	.00920	.00910	.00910	.00910	.00910	.00910	.00910	328.02000
3.493	18.321	-1.90730	1976.80000	.00900	.00880	.00880	.00870	.00880	.00880	.00880	328.02000
3.493	20.351	-1.90460	1976.80000	.00850	.00850	.00840	.00840	.00850	.00850	.00850	328.02000
3.493	22.395	-1.89990	1976.80000	.00830	.00830	.00820	.00820	.00830	.00830	.00830	328.02000
3.493	24.440	-1.89390	1976.80000	.00820	.00820	.00810	.00810	.00820	.00820	.00820	328.02000
3.493	25.460	-1.88990	1976.80000	.00820	.00810	.00810	.00800	.00810	.00810	.00810	328.02000
GRADIENT				.00022	.00020	.00020	.00020	.00020	.00020	.00017	.00000

RUN NO. 427/ 0

RNAL = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(P5F)
3.493	1.045	-1.97800	2649.39999	.00710	.00700	.00700	.00690	.00710	.00710	.00710	298.18000
3.493	2.065	-1.99090	2650.79999	.00710	.00710	.00700	.00700	.00700	.00700	.00700	298.34000
3.493	4.097	-1.99660	2653.70001	.00690	.00690	.00690	.00700	.00690	.00690	.00690	298.66000
3.493	6.123	-2.00840	2653.00000	.00700	.00700	.00680	.00680	.00680	.00680	.00680	298.58000
3.493	8.153	-2.01230	2651.60001	.00650	.00650	.00650	.00640	.00640	.00640	.00640	298.42000
3.493	10.187	-2.01770	2653.70001	.00620	.00610	.00610	.00590	.00590	.00590	.00590	298.66000
3.493	12.217	-2.02270	2652.23999	.00590	.00580	.00580	.00580	.00590	.00590	.00590	298.50000
3.493	14.256	-2.03170	2651.60001	.00550	.00550	.00550	.00540	.00550	.00550	.00550	298.91000
3.493	16.290	-2.03400	2653.70000	.00580	.00570	.00570	.00570	.00570	.00570	.00570	298.58000
3.493	18.321	-2.03120	2653.00000	.00560	.00560	.00550	.00540	.00550	.00550	.00550	298.82000
3.493	20.351	-2.01780	2655.10001	.00550	.00550	.00550	.00540	.00550	.00550	.00550	298.65000
3.493	22.395	-2.01230	2653.70001	.00550	.00550	.00550	.00540	.00550	.00550	.00550	298.74000
3.493	24.440	-2.00580	2654.39999	.00550	.00550	.00550	.00540	.00550	.00550	.00550	298.58000
3.493	25.460	-2.00370	2653.00000	.00520	.00510	.00510	.00500	.00510	.00510	.00500	298.74000
GRADIENT				.00005	.00002	.00002	.00002	.00002	.00002	.00005	.00000

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(BETRI5) F 02 AUG 76

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ATLON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 31/0 RNAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.598	.073	.19450	2594.28999	.74690	.74730	.74740	.74680	.74990	.74650	.73930	510.01000
.598	2.125	.20690	2593.00000	.74540	.74680	.74690	.74650	.74650	.74730	.74240	510.61000
.598	4.183	.20860	2594.28999	.74800	.74770	.74810	.74700	.74720	.74750	.74490	507.68980
.597	6.253	.21040	2593.00000	.74740	.74670	.74800	.74700	.74720	.74730	.74610	509.44000
.598	8.344	.21520	2595.00000	.74770	.74750	.74820	.74710	.74680	.74730	.74590	507.72000
.597	10.444	.21130	2595.00000	.74650	.74770	.74740	.74730	.74650	.74680	.74530	508.85000
.597	12.540	.20970	2595.00000	.74650	.74690	.74640	.74610	.74590	.74680	.74530	508.85000
.597	14.656	.22340	2595.70001	.74370	.74410	.74430	.74360	.74340	.74410	.74390	508.87000
.597	16.772	.21590	2595.70001	.74200	.74160	.74280	.74110	.73800	.73930	.74160	508.28000
.597	18.886	.21300	2595.00000	.73880	.73800	.73750	.73340	.73350	.73350	.73290	508.30000
.597	20.999	.20210	2595.70001	.73320	.73260	.73350	.72880	.72940	.73350	.73390	508.31000
.598	23.099	.20130	2596.39999	.72990	.72900	.72810	.72880	.72810	.72260	.72830	508.89000
.597	25.168	.23700	2596.39999	.72880	.72250	.72310	.72410	.72260	.71920	.72450	511.21000
.599	26.147	.16810	2596.39999	.71890	.71810	.71790	.71810	.71870	.71920	.72450	511.21000
	GRADIENT	.00343	.00025	.00017	.00010	.00017	.00005	.00032	.00024	.00136	-56.777

RUN NO. 35/0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.699	.064	.19100	2357.29999	.67340	.67360	.67420	.67260	.67240	.67280	.68150	581.29000
.699	2.125	.24190	2357.29999	.67180	.67280	.67280	.67270	.67250	.67390	.66630	580.75000
.699	4.195	.20990	2356.60001	.67260	.67320	.67450	.67330	.67300	.67330	.66960	581.62000
.696	6.267	.21800	2356.60001	.67340	.67370	.67290	.67290	.67420	.67340	.67120	578.99000
.697	8.356	.21550	2357.29999	.67300	.67318	.67329	.67458	.67430	.67460	.67240	579.14000
.697	10.408	.21490	2357.29999	.67230	.67240	.67140	.67190	.67150	.67150	.67170	579.14000
.697	12.508	.21210	2357.29999	.67000	.66980	.67030	.67100	.67080	.67050	.67160	578.99000
.697	14.634	.22270	2356.60001	.66940	.66780	.66790	.66770	.66890	.66930	.66930	577.50000
.697	16.858	.21410	2357.29999	.66210	.66340	.66370	.66290	.66250	.66320	.66730	579.68000
.697	18.999	.20890	2356.60001	.65870	.65710	.65740	.65780	.65680	.65720	.66370	579.14000
.699	21.115	.19560	2357.29999	.65630	.65430	.65400	.65350	.65180	.65390	.65940	577.52000
.699	23.215	.19820	2356.60001	.64510	.64510	.64400	.64400	.64420	.64490	.65350	569.77000
.697	25.271	.21450	2356.60001	.63320	.63160	.63080	.63250	.63240	.63150	.64350	579.65000
.697	26.243	.18330	2357.29999	.62110	.62030	.62030	.62280	.62200	.62750	.63270	581.29000
.699	GRADIENT	.00457	.16353	.00019	.00018	.00007	.00017	.00015	.00012	.00196	12.374

TABULATED DATA - 04161 (ARC 11-97-87-084)

(BETRIS) (02 AUG 76)

ARC 11-97-87-084 Q4161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AFLRON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

RUN NO. 414 0 RNL = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSE1
.799	.043	.19200	2197.50000	.59580	.59530	.59490	.59450	.59410	.59370	.59330	644.69800
.799	2.122	.21540	2193.20001	.59376	.59360	.59340	.59320	.59300	.59280	.59260	645.21000
.798	4.220	.22050	2199.20001	.59690	.59590	.59560	.59480	.59620	.59610	.59530	644.24000
.798	6.322	.22600	2198.20001	.59990	.59740	.59650	.59710	.59710	.59720	.59360	644.24000
.798	8.433	.23240	2198.20001	.59750	.59840	.59800	.59690	.59630	.59630	.59490	643.76000
.798	10.566	.22940	2198.89999	.59590	.59630	.59550	.59490	.59490	.59490	.59450	644.28000
.797	12.667	.23190	2198.20001	.59320	.59420	.59410	.59210	.59260	.59270	.59390	642.79000
.796	14.798	.23590	2198.89999	.59040	.59140	.59110	.59020	.59050	.58860	.59190	642.83000
.796	16.935	.23890	2198.20001	.58780	.58880	.58890	.58400	.58250	.58140	.58770	644.24000
.796	19.054	.24300	2198.89999	.57680	.57580	.57590	.57660	.57500	.57650	.59180	641.86000
.801	21.222	.24560	2208.10001	.56840	.56700	.56740	.56450	.56580	.55420	.57270	649.65000
.795	23.294	.23730	2207.39999	.55420	.55460	.55470	.55580	.55480	.55420	.56510	643.79000
.798	25.339	.23030	2207.39999	.53220	.53180	.53280	.53180	.53280	.53040	.55190	646.71000
.798	26.291	.18400	2207.39999	.52520	.52450	.52810	.52560	.52780	.52620	.54070	677.19000
	GRADIENT	.00675	.16733	.00007	.00007	.00007	.00002	.00034	.00026	.00294	-1.10829

RUN NO. 464 0 RNL = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSE1
.846	.065	.15520	2153.60001	.55660	.55750	.55640	.55650	.55700	.55630	.52070	675.28000
.845	2.134	.21150	2156.50000	.55750	.55790	.55830	.55880	.55790	.55680	.54450	678.63000
.849	4.227	.20650	2156.79999	.55756	.55730	.55650	.55830	.56010	.55990	.55080	678.53000
.847	6.330	.21220	2156.50000	.55840	.55800	.55660	.55630	.55670	.55750	.55310	677.77000
.848	8.447	.22460	2157.20001	.55550	.55630	.55680	.55660	.56750	.55530	.55440	678.28000
.847	10.566	.22530	2157.20001	.55080	.55110	.55480	.55480	.55460	.55420	.55420	677.82000
.847	12.677	.22150	2157.20001	.55080	.55020	.55020	.54900	.55020	.55030	.54950	677.82000
.846	14.810	.23220	2157.20001	.54720	.54610	.54500	.54450	.54450	.54580	.54450	677.82000
.847	16.952	.23290	2157.20001	.53900	.53920	.53920	.53110	.53200	.53200	.53880	677.35000
.847	19.089	.23410	2157.20001	.52950	.53110	.53070	.53150	.53140	.52050	.53130	678.91000
.846	21.224	.22780	2157.20001	.52190	.52140	.52190	.52070	.52290	.50650	.52180	679.59000
.845	23.320	.22640	2157.20001	.50410	.50410	.50410	.50240	.50470	.48350	.50460	677.31000
.847	25.375	.21650	2156.50000	.48430	.48170	.48170	.48240	.48210	.47570	.49240	678.28000
	GRADIENT	.18870	.52687	.00022	.00005	.00005	.00044	.00075	.00087	.00722	.60324

TABULATED DATA - 0A161 (ARC 11-87-87-09#)

ARC 11-87-87-09# 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YQ
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
 SCALE = .0300

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(BETRIS) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALARON = .000 BOFLAP = -7.170

RUN NO. 62/ 0 RNL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
.980	.053	.17530	2072.29999	.42660	.42660	.42590	.42630	.42530	.42620	.40820	753.15000
.981	2.165	.19780	2075.50000	.42660	.42630	.42710	.42590	.42680	.41660	.41660	755.16000
.990	4.277	.20620	2074.39999	.42900	.42810	.42770	.42940	.42820	.42770	.42200	754.15000
.983	6.402	.20890	2073.03000	.42840	.42840	.42550	.42550	.42530	.42510	.42330	753.24000
.979	8.550	.22320	2077.29999	.42420	.42260	.42390	.42260	.42290	.42330	.42400	754.13000
.982	10.706	.22410	2075.79999	.41710	.41540	.41690	.41530	.41680	.41830	.42140	754.33000
.978	12.845	.20860	2073.78000	.41340	.41220	.41390	.41470	.41480	.41360	.41790	752.21000
.976	14.998	.21940	2075.79999	.40390	.40790	.40380	.40410	.40320	.40320	.41040	752.99000
.990	17.169	.22520	2075.79999	.39490	.39560	.39610	.39620	.39680	.39510	.40210	754.78000
.974	19.297	.22070	2073.70000	.39750	.39870	.39560	.39550	.39530	.39740	.40210	753.96000
.974	21.443	.20580	2075.10000	.36490	.37770	.39590	.39550	.39450	.39290	.39980	753.51000
.976	23.539	.20540	2078.70000	.37770	.37710	.37620	.37760	.37850	.37650	.38720	753.19000
.977	25.615	.23350	2075.10000	.35740	.35740	.35700	.36060	.35830	.35910	.37530	752.01000
.979	26.601	.16450	2074.39999	.34950	.35080	.35240	.35130	.35080	.35030	.36490	753.04000
	GRADIENT	.00731	.49715	.00057	.00083	.00043	.00073	.00059	.00038	.00327	.23673

RUN NO. 67/ 0 RNL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSP)
1.052	.059	.20030	2041.20000	.38250	.36160	.35160	.35020	.35960	.35110	.34560	783.21000
1.051	2.174	.21030	2040.50000	.36090	.36160	.36350	.36350	.36350	.35220	.34560	784.76000
1.050	4.296	.21900	2040.50000	.35960	.36030	.36300	.36180	.36120	.35350	.35810	783.64000
1.048	6.420	.22040	2041.20000	.36320	.36310	.36370	.36480	.36160	.36370	.35870	783.52000
1.049	8.575	.22780	2040.50000	.36120	.36130	.36240	.36170	.36110	.36300	.35870	783.21000
1.049	10.737	.23250	2041.89999	.36610	.36520	.36520	.36490	.36510	.35790	.35220	783.75000
1.050	12.882	.22370	2041.20000	.34990	.35060	.34850	.35050	.35050	.34830	.35480	784.27000
1.050	15.047	.22450	2042.80000	.34410	.34360	.34460	.34420	.34250	.34300	.34940	784.81000
1.051	17.219	.21440	2041.89999	.34020	.33910	.33960	.33930	.33870	.34340	.34940	785.01000
1.048	19.394	.21950	2041.89999	.33790	.33630	.33600	.33680	.33610	.33580	.34210	785.44000
1.049	21.534	.20800	2041.20000	.33790	.33710	.33620	.33690	.33540	.33590	.33910	778.87000
1.050	23.645	.21000	2043.30000	.32620	.32030	.32010	.32280	.32170	.32220	.33280	785.24000
1.049	25.781	.21480	2042.60000	.30880	.30970	.31020	.30860	.30830	.30870	.32380	783.95000
1.049	26.716	.19900	2042.60000	.30860	.30900	.30830	.30950	.30750	.30730	.31530	784.49000
	GRADIENT	.00441	.41691	.00058	.00034	.00033	.00038	.00038	.00014	.00448	.32338

(BETRIST (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	PT	PH1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.100	.0527	.17320	2015.00000	.33740	.33800	.33820	.33800	.33820	.33760	.32410	799.25000
1.099	2.169	.19820	2014.30000	.33750	.33790	.33750	.33700	.33780	.33770	.33020	798.57000
1.101	4.293	.21240	2015.00000	.33630	.33628	.33610	.33580	.33640	.33630	.33250	799.80000
1.098	6.416	.21600	2014.30000	.33660	.33660	.33500	.33580	.33510	.33500	.33420	798.29000
1.099	8.570	.22330	2016.39999	.33430	.33430	.33420	.33400	.33460	.33490	.33420	798.97000
1.098	10.729	.22770	2015.00000	.33370	.33360	.33420	.33370	.33400	.33390	.33450	798.42000
1.099	12.888	.22350	2015.00000	.33290	.33280	.33290	.32900	.32950	.32930	.33230	799.42000
1.098	15.053	.22590	2015.70000	.33240	.33260	.33290	.32290	.32260	.32280	.32850	798.56000
1.099	17.238	.21730	2017.10001	.33160	.33160	.33180	.31710	.31670	.31740	.32300	798.37000
1.098	19.390	.22090	2016.39999	.33290	.33250	.33290	.31270	.31220	.31350	.31330	801.02000
1.099	21.533	.20490	2018.50000	.30650	.30620	.30510	.30640	.30640	.30620	.31130	800.48000
1.101	23.744	.21380	2017.10001	.29150	.29150	.29230	.29201	.29380	.28980	.29590	797.32000
1.097	26.741	.17430	2013.60001	.28860	.28770	.28960	.28830	.28950	.28810	.29590	797.32000
	GRADIENT	.00925	.00013	-.00047	-.03028	-.00050	-.00052	-.00042	-.00031	.00198	.02994

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.149	.051	.23100	2002.30000	.31030	.31130	.31040	.31030	.31078	.31130	.29980	814.86000
1.149	2.160	.22410	2002.30000	.31090	.31060	.31070	.31000	.31070	.31160	.30500	815.09000
1.149	4.276	.20730	2003.00000	.31170	.31230	.31230	.31080	.31090	.31030	.30590	815.25000
1.146	6.401	.20430	2002.30000	.31280	.31250	.31160	.31158	.30990	.30970	.30820	813.91000
1.147	8.564	.22240	2003.00000	.31470	.31390	.31180	.31170	.31140	.31120	.31040	813.82000
1.147	10.727	.22940	2003.00000	.30690	.30620	.30860	.30880	.30790	.30800	.30550	814.54000
1.145	12.888	.22300	2003.00000	.30260	.30280	.30280	.30360	.30330	.30390	.30250	814.63000
1.147	15.051	.20910	2002.30000	.29790	.29790	.29880	.29790	.29820	.29770	.29770	813.91000
1.147	17.220	.21440	2004.39999	.29240	.29140	.29270	.29270	.29030	.29030	.29290	815.95000
1.143	19.380	.20900	2004.39999	.28730	.28730	.28640	.28630	.28630	.28670	.28640	815.75000
1.143	21.517	.19860	2004.39999	.28440	.28460	.28400	.28480	.28490	.28160	.28590	816.89000
1.151	23.633	.20360	2005.10001	.28290	.28290	.28360	.28280	.28220	.28160	.28100	815.25000
1.149	25.746	.20620	2003.00000	.27490	.27460	.27530	.27520	.27520	.27430	.28100	815.25000
1.149	26.755	.19340	2004.39999	.27190	.27190	.27130	.27200	.27140	.27140	.27890	816.03000
1.150	GRADIENT	.00143	.16577	.00024	.00024	.00040	.00012	.00005	-.00024	.00168	.02930

(BE7R15) (02 AUG 78)

PARAMETRIC DATA

BETA = .000
AIRLON = .000
ELEVON = .000
EOLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ. FT.
LREF = 474.8100 IN.
BREF = 935.6800 IN.
SCALE = .0300

RUN NO. 82/ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF
1.199	.045	.1730	2007.89999	.28230	.28230	.28270	.28320	.28250	.28260	.27370	834.19000
1.202	2.152	.29030	2007.20000	.28140	.28110	.28120	.28109	.28170	.28350	.27710	834.98000
1.199	4.271	.21440	2007.20000	.28300	.28300	.28430	.28430	.28400	.28360	.28010	834.01000
1.198	6.393	.20760	2007.20000	.28256	.28180	.28180	.28181	.28140	.28180	.27930	833.82000
1.197	8.560	.21820	2006.50000	.28140	.28150	.28180	.28120	.28040	.28040	.28040	833.04000
1.199	10.727	.22660	2007.89999	.27830	.27720	.27780	.27810	.28040	.27730	.27340	833.92000
1.196	12.878	.20830	2007.20000	.27370	.27350	.27350	.27351	.27390	.27400	.27190	834.19000
1.199	15.044	.26560	2007.89999	.26530	.26540	.26540	.26510	.26690	.26690	.26690	833.20000
1.197	17.207	.21570	2007.20000	.25890	.25780	.25780	.25781	.25790	.25770	.25240	832.42000
1.194	19.362	.21190	2007.20000	.25900	.25760	.25450	.25391	.25330	.25350	.25260	835.15000
1.201	21.507	.20070	2008.50000	.25500	.25480	.25840	.25891	.25910	.25510	.25260	831.24000
1.191	23.632	.20310	2006.50000	.25850	.24980	.24830	.24861	.24890	.25080	.25000	832.22000
1.192	25.741	.28120	2007.89999	.25050	.25080	.25090	.25170	.25230	.25190	.25390	832.55000
1.192	26.780	.20390	2006.50000	.00017	.00017	.00038	.00026	.00036	.00024	.00431	- .04257
1.195		.00361									

RUN NO. 87/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF
1.298	.036	.21900	2004.39999	.23900	.23540	.23570	.23600	.23590	.23530	.22710	855.53000
1.299	2.130	.21840	2003.70000	.23590	.23620	.23670	.23670	.23670	.23640	.23140	855.53000
1.299	4.248	.24450	2004.39999	.23560	.23520	.23670	.23620	.23600	.23640	.23350	855.53000
1.297	6.365	.20010	2004.39999	.23490	.23520	.23560	.23560	.23560	.23510	.23390	855.29000
1.295	8.527	.22450	2005.10001	.23350	.23350	.23360	.23350	.23390	.23390	.23380	855.40000
1.293	10.681	.21410	2005.10001	.23210	.23190	.23260	.23240	.23230	.23250	.23330	855.40000
1.295	12.841	.21000	2005.10001	.22980	.22980	.22980	.22970	.22860	.22650	.23100	855.29000
1.295	14.999	.22900	2004.39999	.22920	.22920	.22920	.22920	.22850	.22750	.22750	855.29000
1.295	17.167	.19370	2005.10001	.21800	.21780	.21810	.21810	.21780	.21760	.22400	855.29000
1.294	19.319	.20250	2004.39999	.21720	.21760	.21750	.21760	.21790	.21810	.22120	855.63000
1.295	21.465	.20120	2005.80000	.21610	.21640	.21650	.21640	.21610	.21610	.21890	855.63000
1.295	23.593	.20560	2005.80000	.21530	.21530	.21530	.21510	.21500	.21520	.21750	855.63000
1.295	25.716	.22210	2005.50000	.21390	.21310	.21390	.21310	.21280	.21310	.21550	855.66000
1.295	26.764	.21470	2005.89000	.20720	.20760	.20750	.20700	.20680	.20740	.21190	855.74000
1.295		.00607		.00014	.00017	.00024	.00005	.00003	.00021	.00152	.00730

TABULATED DATA - 0A161 (ARC 11-97-87-89A)

(18E7R15) 1 02 AUG 78)

ARC 11-97-87-89A 0A161 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = .000 ELEVON = .000
 AILRON = -.000 EDFLAP = -.7.170

RUN NO. 92/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.02

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QPSF1
1.403	.017	.17260	2048.29999	.19730	.19760	.19750	.19780	.19790	.19720	.19100	883.13000
1.403	2.115	.21540	2043.29999	.19790	.19840	.19830	.19780	.19790	.19790	.19430	883.13000
1.402	4.222	.23980	2048.29999	.19810	.19780	.19740	.19760	.19770	.19770	.19540	883.11000
1.399	6.346	.21640	2048.29999	.19710	.19720	.19730	.19730	.19730	.19730	.19540	883.07000
1.399	8.495	.20770	2048.29999	.19580	.19570	.19580	.19580	.19580	.19580	.19530	883.05000
1.397	10.650	.19340	2048.00000	.19330	.19320	.19340	.19380	.19330	.19340	.19340	883.03000
1.398	12.795	.20220	2048.29999	.19070	.19070	.19080	.19080	.19080	.19080	.19080	883.04000
1.399	14.958	.23760	2049.00000	.18950	.18950	.18950	.18950	.18950	.18950	.18950	883.07000
1.398	17.124	.19310	2048.29999	.18590	.18590	.18590	.18590	.18590	.18590	.18590	883.04000
1.398	19.282	.20150	2049.00000	.18440	.18440	.18440	.18440	.18440	.18440	.18440	883.03000
1.397	21.427	.20850	2048.29999	.18360	.18360	.18360	.18360	.18360	.18360	.18360	883.03000
1.395	23.572	.21270	2050.29999	.17780	.17780	.17780	.17780	.17780	.17780	.17780	884.05000
1.404	25.689	.22540	2048.29999	.17470	.17470	.17470	.17470	.17470	.17470	.17470	883.00000
1.396	26.748	.21598	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00476

RUN NO. 323/ 0 RN/L = 3.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QPSF1
1.556	.042	-.53920	1515.70000	.14760	.14740	.14740	.14770	.14760	.14730	.14760	544.86000
1.556	2.029	-.54070	1515.00000	.14920	.14900	.14900	.14770	.14920	.14920	.14920	544.58000
1.556	4.106	-.54170	1515.00000	.14760	.14740	.14740	.14770	.14760	.14730	.14730	544.58000
1.555	6.177	-.54160	1515.00000	.14670	.14650	.14650	.14680	.14670	.14630	.14630	544.58000
1.555	8.245	-.54240	1515.70000	.14180	.14250	.14180	.14130	.14180	.14180	.14180	544.58000
1.555	10.312	-.54070	1513.89999	.13880	.13800	.13800	.13900	.13880	.13880	.13880	545.58000
1.555	12.354	-.53940	1523.50000	.13700	.13750	.13750	.13750	.13750	.13750	.13750	545.58000
1.555	14.439	-.53780	1525.60000	.13440	.13420	.13420	.13430	.13430	.13430	.13430	545.58000
1.555	16.587	-.53520	1528.39999	.13350	.13350	.13350	.13350	.13350	.13350	.13350	545.58000
1.555	18.685	-.53500	1532.70000	.12940	.12900	.12900	.12910	.12910	.12910	.12910	545.58000
1.555	20.723	-.53090	1536.89999	.12950	.12950	.12950	.12950	.12950	.12950	.12950	545.58000
1.555	22.812	-.52810	1539.00000	.12490	.12490	.12490	.12490	.12490	.12490	.12490	545.58000
1.555	24.875	-.52180	1539.00000	.11530	.11560	.11560	.11530	.11530	.11530	.11530	545.58000
1.555	25.931	-.51950	1537.60000	.11190	.11138	.11150	.11150	.11150	.11150	.11150	545.58000
1.555	GRADIENT	-.00061	-.17095	-.00001	-.00001	-.00012	-.00003	-.00024	-.00028	-.00037	-.07327

(BETRI51 (02 AUG 76)

PARAMETRIC DATA

BETA = .000
ALIRON = .000
ELEVON = .000
BOFLAP = -7.170

TABULATED DATA - 0A16D (ARC 11-97-87-094)

ARC 11-97-87-094 0A16I ORBITER

REFERENCE DATA

SPEF = 2690.0000 S.F.T. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 328/ 0. RNVL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
1.750	-1.007	-35290	1649.39999	.10450	.10450	.10450	.10450	.10450	.10450	.10450	664.00000
1.750	1.986	-35460	1643.39999	.10510	.10510	.10510	.10510	.10510	.10510	.10480	654.00000
1.750	6.104	-35440	1650.10001	.10300	.10260	.10310	.10290	.10290	.10330	.10300	664.28000
1.750	8.193	-35420	1649.39999	.09950	.09920	.09940	.09940	.09940	.09950	.09930	664.00000
1.750	10.205	-35460	1649.39999	.09700	.09710	.09740	.09740	.09740	.09660	.09660	364.00000
1.750	12.211	-35320	1649.39999	.09580	.09560	.09580	.09580	.09580	.09560	.09540	664.00000
1.750	14.278	-35050	1650.10001	.09460	.09470	.09480	.09500	.09500	.09510	.09520	664.00000
1.750	16.409	-34710	1649.39999	.09210	.09210	.09210	.09220	.09220	.09150	.09150	664.28000
1.750	18.492	-34530	1650.10001	.09100	.09120	.09150	.09140	.09130	.08960	.08940	664.00000
1.750	20.503	-33980	1649.39999	.08920	.08900	.08950	.08930	.08920	.08370	.08350	664.00000
1.750	22.574	-33640	1649.39999	.08400	.08360	.08360	.08360	.08360	.07900	.07900	664.28000
1.750	24.620	-33260	1650.10001	.07880	.07930	.07900	.07910	.07910	.07660	.07670	664.00000
1.750	26.648	-32960	1649.39999	.07680	.07650	.07680	.07650	.07650	.00040	.00040	.00000
1.750	GRADIENT	-00088	.00000	.00030	.00050	.00035	.00035	.00035			

RUN NO. 333/ 0. RNVL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
1.997	-0.022	-88550	1814.89999	.06080	.06120	.06090	.06100	.06110	.06100	.06110	650.65000
1.997	2.012	-88610	1814.89999	.06140	.06120	.06100	.06100	.06100	.06180	.06090	650.65000
1.997	4.070	-88540	1814.89999	.06240	.06210	.06220	.06220	.06230	.06210	.06210	650.65000
1.997	6.134	-88490	1814.10001	.06070	.06070	.06080	.06080	.06080	.06090	.06080	650.39000
1.997	10.267	-88520	1814.89999	.05660	.05670	.05680	.05670	.05670	.05670	.05660	650.65000
1.997	12.302	-88330	1815.60001	.05550	.05550	.05560	.05550	.05550	.05550	.05550	650.90000
1.997	13.631	-88360	1814.10001	.05410	.05410	.05400	.05410	.05400	.05440	.05420	650.39000
1.997	16.530	-88660	1814.10001	.05320	.05310	.05310	.05270	.05270	.05310	.05310	650.39000
1.997	18.621	-87730	1814.89999	.05220	.05220	.05230	.05230	.05230	.05230	.05230	650.65000
1.997	20.656	-87510	1814.89999	.05010	.05010	.05010	.05010	.05010	.04800	.04810	650.65000
1.997	22.729	-87080	1814.89999	.04760	.04750	.04780	.04730	.04730	.04570	.04570	650.65000
1.997	25.274	-86500	1814.89999	.04530	.04530	.04530	.04560	.04560	.04027	.04027	.00000
1.997	GRADIENT	-00003	.00000	.00030	.00022	.00032	.00029	.00029			

(BE7R15) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
AILRON = .000
ELEVON = .000
BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094-0A161 ORBITER

REFERENCE DATA

SREF = 2998.0000 SO.FT.
LREF = 474.8000 IN.
BREF = 936.6800 IN.
SCALE = .0300

RUN NO. 347/ 0 RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSE
2.250	-1.126	-97880	1919.50800	.03570	.03570	.03580	.03580	.03580	.03580	.03570	588.40000
2.250	1.863	-97710	1922.39999	.03520	.03510	.03510	.03510	.03480	.03490	.03500	588.27000
2.250	3.911	-97860	1921.70000	.03560	.03560	.03560	.03560	.03570	.03560	.03560	589.05000
2.250	5.951	-97880	1925.20000	.03710	.03710	.03680	.03670	.03650	.03670	.03570	590.14000
2.250	8.013	-97850	1925.89999	.03570	.03540	.03530	.03520	.03550	.03560	.03570	590.35000
2.250	10.060	-97810	1928.00000	.03360	.03370	.03380	.03380	.03390	.03400	.03390	591.44000
2.250	12.090	-97720	1929.39999	.03240	.03240	.03240	.03240	.03240	.03240	.03240	592.74000
2.250	14.167	-97110	1953.70000	.03190	.03190	.03190	.03190	.03190	.03150	.03150	594.25000
2.250	16.292	-97820	1959.60001	.02970	.02980	.02980	.02970	.02980	.02970	.02960	593.82000
2.250	18.366	-97630	1937.20000	.02950	.02950	.02950	.02950	.02950	.02970	.02970	594.25000
2.250	20.377	-97500	1938.60001	.02820	.02820	.02820	.02830	.02840	.02860	.02820	595.56000
2.250	22.448	-97100	1942.89999	.02820	.02820	.02810	.02790	.02790	.02790	.02790	595.34000
2.250	24.497	-96800	1942.20000	.02330	.02330	.02330	.02330	.02330	.02330	.02330	594.91000
2.250	25.513	-96410	1940.70000	.00002	.00002	.00005	.00003	.00003	.00003	.00002	594.91000
2.250	GRADIENT	.00005	.54058	.00002	.00002	.00005	.00003	.00003	.00003	.00002	.15859

RUN NO. 418/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSE
2.499	1.118	04510	1457.70000	.02850	.02820	.02840	.02840	.02850	.02860	.02850	373.63000
2.499	2.156	04370	1457.70000	.02770	.02770	.02770	.02780	.02780	.02790	.02770	373.63000
2.499	4.185	04340	1457.70000	.02730	.02730	.02710	.02700	.02700	.02690	.02700	373.63000
2.499	6.219	04220	1457.70000	.02660	.02660	.02640	.02630	.02640	.02630	.02640	373.63000
2.499	8.253	04020	1457.70000	.02610	.02610	.02590	.02580	.02590	.02580	.02590	373.63000
2.499	10.292	03860	1456.39999	.02540	.02540	.02520	.02510	.02520	.02510	.02520	373.63000
2.499	12.332	03630	1457.70000	.02440	.02430	.02430	.02440	.02440	.02440	.02440	373.63000
2.499	14.377	03570	1457.70000	.02380	.02370	.02370	.02380	.02370	.02380	.02370	373.63000
2.499	16.416	03500	1457.70000	.02340	.02340	.02340	.02340	.02340	.02340	.02340	373.63000
2.499	18.459	03230	1458.39999	.02270	.02260	.02260	.02250	.02250	.02260	.02270	373.63000
2.499	20.502	03180	1457.00000	.02220	.02220	.02220	.02220	.02220	.02240	.02220	373.63000
2.499	22.540	02930	1456.39999	.02190	.02190	.02190	.02190	.02190	.02190	.02190	373.63000
2.499	24.587	02720	1457.70000	.02150	.02140	.02140	.02150	.02150	.02150	.02150	373.63000
2.499	25.621	02570	1457.70000	.00032	.00022	.00032	.00032	.00032	.00032	.00032	.00000
2.499	GRADIENT	.00002	.00000	.00032	.00022	.00032	.00032	.00032	.00032	.00032	.00000

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 336.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILERON = .000 BOFLAP = -7.170

RUN NO. 423/ 0 RV/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
3.499	.068	.14410	1975.39999	.01270	.01260	.01260	.01260	.01270	.01270	.01270	327.78000
3.499	2.090	.14330	1975.39999	.01270	.01250	.01250	.01240	.01240	.01230	.01240	327.78000
3.499	4.116	.14420	1975.39999	.01220	.01200	.01200	.01190	.01190	.01180	.01200	327.78000
3.499	6.147	.14260	1977.50000	.01180	.01160	.01160	.01150	.01160	.01160	.01180	328.14000
3.499	8.173	.13970	1976.80000	.01140	.01130	.01130	.01130	.01140	.01150	.01140	328.02000
3.499	10.204	.13850	1976.80000	.01120	.01120	.01120	.01120	.01120	.01130	.01120	328.02000
3.499	12.242	.13900	1976.80000	.01100	.01100	.01090	.01080	.01080	.01080	.01080	328.02000
3.499	14.269	.13460	1976.80000	.01020	.01020	.01020	.01020	.01020	.01030	.01030	328.02000
3.499	16.306	.13460	1976.80000	.01010	.01000	.00990	.00990	.00990	.00980	.00980	328.02000
3.499	18.338	.13070	1976.80000	.00990	.00990	.00990	.00990	.00990	.00970	.00970	328.02000
3.499	20.373	.13040	1976.80000	.00970	.00980	.00980	.00970	.00970	.00950	.00950	328.02000
3.499	22.417	.12840	1976.80000	.00950	.00950	.00950	.00930	.00930	.00930	.00920	328.02000
3.499	24.453	.12570	1976.80000	.00920	.00920	.00920	.00890	.00890	.00890	.00890	328.02000
3.499	25.463	.12590	1976.80000	.00920	.00910	.00890	.00890	.00890	.00890	.00890	328.02000
3.499	GRADIENT	.00002	.00002	.00012	.00015	.00015	.00017	.00020	.00020	.00017	.00000

RUN NO. 428/ 0 RV/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
3.499	1.170	.10220	2669.20001	.00720	.00710	.00700	.00700	.00720	.00720	.00720	300.41000
3.499	1.251	.10040	2669.89999	.00710	.00700	.00680	.00680	.00700	.00700	.00700	300.41000
3.499	3.875	.09980	2669.20001	.00680	.00670	.00670	.00660	.00680	.00680	.00680	300.41000
3.499	5.898	.09930	2669.89999	.00650	.00650	.00650	.00640	.00650	.00650	.00650	300.41000
3.499	7.920	.09990	2670.70001	.00650	.00640	.00640	.00630	.00650	.00650	.00650	300.41000
3.499	9.949	.09520	2669.20001	.00610	.00600	.00590	.00580	.00600	.00600	.00590	300.41000
3.499	11.974	.09730	2670.70001	.00600	.00590	.00580	.00570	.00590	.00590	.00570	300.41000
3.499	14.006	.09250	2669.20001	.00590	.00580	.00560	.00550	.00580	.00560	.00560	300.41000
3.499	16.032	.09120	2670.70001	.00560	.00550	.00550	.00550	.00550	.00550	.00550	300.41000
3.499	18.064	.09010	2668.50000	.00550	.00540	.00540	.00530	.00550	.00530	.00530	300.41000
3.499	20.103	.08880	2670.70001	.00540	.00520	.00520	.00520	.00530	.00520	.00520	300.41000
3.499	22.134	.08650	2669.89999	.00530	.00520	.00500	.00500	.00510	.00520	.00520	300.41000
3.499	24.170	.09370	2669.89999	.00500	.00500	.00500	.00500	.00540	.00540	.00540	300.41000
3.499	25.182	.08660	2669.89999	.00550	.00540	.00540	.00520	.00520	.00530	.00530	300.41000
3.499	GRADIENT	.00059	.00005	.00010	.00010	.00007	.00013	.00007	.00007	.00010	.00000

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = 0.0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

RUN NO. 32/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
.584	.088	2.24440	2576.00000	.74910	.74830	.74790	.74830	.74920	.74890	.73638	.016551
.587	2.138	2.28050	2593.60001	.74630	.74670	.74600	.74650	.74730	.74780	.73638	.501.56000
.587	4.199	2.29800	2593.69001	.74720	.74670	.74640	.74690	.74610	.74740	.74440	.508.63000
.595	6.276	2.30490	2580.10001	.74830	.74820	.74770	.74790	.74760	.74850	.75560	.508.26000
.595	8.369	2.31160	2580.10001	.74770	.74780	.74770	.74790	.74750	.74838	.75270	.503.35000
.594	10.474	2.32090	2580.79999	.74770	.74770	.74810	.74690	.74670	.74720	.75920	.502.78000
.586	12.626	2.30908	2581.98000	.74610	.74570	.74550	.74610	.74550	.74670	.74830	.504.94000
.597	14.753	2.29150	2582.20001	.74320	.74320	.74340	.74350	.74380	.74440	.74650	.505.72000
.597	16.893	2.29250	2582.20001	.74160	.74120	.74060	.74070	.74020	.74020	.74460	.506.30000
.597	19.000	2.28580	2581.50000	.73730	.73770	.73810	.73880	.73900	.73830	.74220	.505.70000
.595	21.092	2.27740	2581.50000	.73500	.73620	.73610	.73610	.73500	.73440	.73830	.503.37000
.595	23.175	2.28650	2582.20001	.73140	.73090	.73100	.73100	.73090	.73000	.73460	.505.14000
.596	25.217	2.31380	2582.20001	.72450	.72580	.72460	.72530	.72348	.72660	.72958	.504.56000
.597	26.149	2.34230	2582.20001	.71720	.71680	.71880	.71751	.71818	.71710	.72420	.506.30000
	GRADIENT	.01304	3.79217	-.00046	-.00054	-.00036	-.00031	-.00075	-.00036	.00197	1.62846

RUN NO. 33/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	PT8/PT
.608	.081	2.26230	2356.60001	.67280	.67420	.67280	.67420	.67240	.67290	.86650	.016551
.609	2.134	2.29380	2312.10001	.67230	.67320	.67280	.67300	.67230	.67250	.86650	.500.72000
.609	4.208	2.31000	2311.39999	.67150	.67180	.67260	.67260	.67230	.67250	.79258	.570.69000
.607	6.295	2.31558	2310.70001	.67400	.67410	.67400	.67310	.67160	.67070	.71060	.578.57000
.608	8.411	2.31650	2311.39999	.67240	.67170	.67290	.67210	.67290	.67380	.69500	.567.86000
.607	10.528	2.32410	2310.70001	.67120	.67170	.67290	.67220	.67290	.67220	.69500	.568.95000
.605	12.671	2.30890	2310.70001	.67190	.67130	.66980	.66930	.67160	.67180	.67930	.568.40000
.605	14.812	2.30270	2311.39999	.66670	.66620	.66740	.66670	.66640	.66780	.87540	.565.79000
.606	16.964	2.30570	2310.70001	.66210	.66210	.66290	.66340	.66330	.66290	.87168	.567.33000
.606	19.083	2.29340	2310.70001	.65710	.65630	.65710	.65710	.65710	.65710	.86690	.567.32000
.604	21.189	2.28540	2310.70001	.65400	.65470	.65690	.65690	.65710	.65710	.86470	.569.25000
.604	23.263	2.28410	2310.70001	.64550	.64520	.64420	.64420	.64440	.64460	.86010	.554.63000
.606	25.304	2.32800	2309.89999	.63710	.63420	.63080	.63080	.63310	.63190	.84460	.568.22000
.606	26.222	2.37240	2309.89999	.62270	.62400	.62390	.62240	.62150	.62150	.83460	.566.77000
	GRADIENT	.01155	-10.93241	-.00027	-.00058	-.00085	-.00034	-.00019	-.00053	-.03777	-2.45485

(BETR16) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.720

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8800 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 373.0000 IN. Z0
SCALE = .0300

RUN NO. 407 0 RNAL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.799	.046	2.27530	2198.20001	.59460	.59370	.59370	.59340	.59300	.59430	.57980	644.73002
.799	2.130	2.28420	2193.20001	.59440	.59510	.59510	.59550	.59530	.59510	.59120	645.21002
.799	4.224	2.30650	2198.20001	.59480	.59410	.59500	.59480	.59530	.59510	.59340	644.73000
.798	6.336	2.30850	2198.20001	.59860	.59740	.59640	.59670	.59560	.59560	.59400	643.75000
.797	8.455	2.31030	2198.20001	.59590	.59620	.59570	.59610	.59570	.59700	.59510	643.27000
.797	10.569	2.31590	2198.20001	.59580	.59590	.59580	.59440	.59500	.59530	.59490	643.27000
.798	12.722	2.30660	2198.89999	.59260	.59270	.59270	.59170	.59200	.59230	.59230	642.34000
.798	14.872	2.30930	2198.89999	.58710	.58690	.58700	.58650	.58640	.58980	.58560	642.83290
.799	19.176	2.32270	2198.20001	.58430	.58320	.58160	.58430	.58320	.58290	.58340	643.27000
.799	21.276	2.30770	2198.89999	.57250	.57000	.57028	.56720	.56980	.56800	.56720	641.37000
.795	23.367	2.31870	2198.89999	.55480	.55710	.55230	.55220	.55490	.55410	.55220	642.39000
.795	25.373	2.31740	2198.89999	.53050	.53250	.53080	.53020	.53440	.53440	.55250	641.37000
.795	26.301	2.39820	2198.89999	.53300	.52980	.52940	.52850	.52770	.52850	.54170	644.28000
GRADIENT		.00747	-.00002	.00805	.00010	.00031	.00033	.00955	.00043	.00325	-.00020

RUN NO. 474 0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.847	.058	2.25640	2155.10001	.55560	.55540	.55630	.55680	.55660	.55610	.53630	677.21000
.850	2.141	2.23200	2155.50000	.55570	.55640	.55580	.55560	.55560	.55580	.54440	679.60000
.848	4.241	2.30630	2155.79999	.55600	.55660	.55700	.55610	.55740	.55680	.54960	676.35000
.848	6.353	2.31230	2156.90000	.55800	.55750	.55600	.55690	.55590	.55570	.55230	675.94000
.847	8.473	2.31270	2155.79999	.55630	.55590	.55640	.55600	.55630	.55630	.55370	676.80000
.847	10.588	2.32410	2156.50000	.55260	.55400	.55360	.55510	.55480	.55290	.55320	675.86000
.845	12.750	2.31400	2157.20001	.54840	.55140	.54960	.54990	.55080	.54780	.55030	678.91000
.847	14.967	2.31980	2156.50000	.54560	.54480	.54450	.54420	.54540	.54450	.54780	677.37000
.849	17.171	2.32770	2157.20001	.53950	.53240	.53770	.53860	.53770	.53880	.54330	678.26000
.845	19.219	2.32040	2158.60001	.53180	.53240	.53130	.52930	.52980	.53000	.53000	676.09000
.846	21.320	2.31050	2157.20001	.51930	.52070	.52060	.52240	.52450	.52200	.53000	676.45000
.844	23.400	2.31760	2157.89999	.50100	.49130	.50000	.49700	.50060	.50060	.51550	675.13000
.844	25.423	2.33110	2157.20001	.48670	.49130	.49160	.48410	.49190	.49020	.50570	674.62000
.847	26.384	2.39480	2160.00000	.48090	.48050	.47960	.47940	.47920	.48110	.49370	678.93000
GRADIENT		.01192	.16563	.00010	.00029	.00017	.00031	.00019	.00017	.00318	-.20749

(BETRMIS) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEWON = .000
A1LRON = .000 BOFLAP = -7.170

TABULATED DATA - OAINS (ARC 11-97-87-094)

ARC 11-97-87-094 OAINS ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 938.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	O(PSF)
.901	0.47	2.26360	2126.79999	.51490	.51590	.51580	.51590	.51560	.51630	.49450	713.50000
.902	2.158	2.26750	2126.79999	.51630	.51640	.51730	.51680	.51750	.51720	.50410	714.74000
.909	4.260	2.30720	2126.79999	.51980	.51900	.51880	.51880	.51720	.51830	.51000	712.22000
.900	6.377	2.31210	2126.79999	.51700	.51780	.51780	.51810	.51750	.51790	.51370	713.08000
.899	8.494	2.31310	2126.79999	.51900	.51840	.51820	.51750	.51680	.51650	.51620	711.79000
.892	10.626	2.32430	2127.50000	.51280	.51270	.51370	.51410	.51360	.51380	.51510	712.71000
.898	12.790	2.28860	2126.79999	.50950	.50860	.50790	.50590	.50640	.50480	.51130	711.36000
.897	14.944	2.32290	2127.50000	.50330	.50310	.50130	.50410	.50240	.50160	.50770	710.99000
.898	17.129	2.33390	2126.79999	.49570	.49530	.49440	.49250	.49370	.49380	.50120	710.92000
.896	19.271	2.31860	2126.79999	.48530	.48530	.48530	.48610	.48860	.48670	.49520	710.06000
.896	21.382	2.31240	2126.79999	.47430	.47470	.47400	.47140	.48660	.46990	.48330	709.63000
.893	23.479	2.32090	2127.50000	.44950	.44800	.44630	.44820	.44750	.44810	.45400	710.12000
.895	25.502	2.32810	2127.50000	.43130	.43500	.43360	.43450	.43550	.43450	.44400	709.57000
.896	26.446	2.38450	2126.10001	.43400	.43220	.43080	.42630	.43060	.43050	.44400	709.57000
	GRADIENT	.00560	-.00002	.00116	.00074	.00071	.00069	.00038	.00047	.00360	-.30319

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	O(PSF)
.951	.071	2.26340	2086.39999	.46870	.46440	.46380	.46250	.46350	.46430	.44310	737.99000
.949	2.173	2.29210	2086.50001	.47230	.46920	.47130	.47870	.47010	.47260	.45490	735.73000
.949	4.266	2.31060	2084.29999	.46950	.46830	.46920	.46620	.46590	.46560	.45910	738.20000
.949	6.417	2.32440	2086.70001	.46560	.46640	.46690	.46640	.46730	.46850	.46180	736.35000
.949	8.557	2.32730	2085.70001	.46440	.46530	.46500	.45920	.46650	.46800	.46510	735.74000
.948	10.699	2.32950	2085.00000	.46290	.46300	.46080	.45920	.45880	.45930	.46300	733.51000
.949	12.867	2.29500	2085.70001	.45090	.44560	.44890	.44700	.44630	.44650	.45550	736.36000
.951	15.027	2.32490	2086.39999	.44310	.44230	.44310	.44330	.44490	.44690	.45180	737.99000
.948	17.228	2.35760	2085.70001	.43410	.43630	.43500	.43440	.43330	.43260	.44290	735.97000
.945	19.358	2.34290	2085.70001	.43930	.43610	.43510	.43230	.42970	.42930	.43750	734.44000
.950	21.492	2.31360	2086.39999	.41330	.41250	.41600	.41450	.41460	.41640	.42760	737.69000
.951	23.565	2.32290	2088.60001	.39700	.39450	.39500	.39550	.40040	.39880	.41370	739.01000
.951	25.630	2.35080	2087.89999	.38620	.38640	.38740	.38860	.38770	.38400	.40800	739.32000
.952	26.557	2.41010	2085.70001	.37940	.37500	.37760	.38140	.37960	.38010	.38010	735.58000
.948	GRADIENT	.01120	-.49743	.00056	.00123	.00128	.00083	.00057	.00031	.00319	-.42410

(BETR16) 1 02 AUG 76

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
A1LRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09M)

ARC 11-97-87-09M 0A161 ORBLITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.8800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0500

RUN NO. 61/ 0 RVAL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
.979	.050	2.28580	2073.70801	.42330	.42330	.42390	.42410	.42440	.42530	.40940	753.33000
.979	2.172	2.28650	2073.70001	.42580	.42840	.42910	.43020	.42930	.42840	.41760	752.95000
.980	4.291	2.29910	2077.29999	.42170	.42820	.42390	.42540	.42400	.42200	.42040	755.24000
.979	8.424	2.31030	2075.10001	.42340	.42220	.42450	.42350	.42440	.42390	.42260	753.87000
.979	8.576	2.30840	2074.39999	.41990	.41950	.42130	.42260	.42330	.42330	.42290	753.94000
.979	10.733	2.30880	2077.29999	.41730	.41860	.41790	.41570	.41650	.41720	.41950	754.50000
.984	12.907	2.29390	2077.29999	.41370	.41240	.41570	.40810	.40960	.41540	.41740	759.44000
.979	14.709	2.28380	2074.39999	.41350	.41240	.41570	.40480	.40780	.41680	.41270	753.04000
.980	15.065	2.34370	2076.50000	.40480	.40590	.40340	.40400	.40040	.40640	.40370	754.79000
.979	17.274	2.32120	2075.79999	.39440	.39440	.39400	.39270	.39040	.39580	.39580	754.20000
.978	19.426	2.31720	2076.50000	.38810	.38810	.39390	.39050	.39040	.38510	.38510	753.21000
.979	21.560	2.31200	2078.00000	.37420	.37420	.37410	.37220	.37280	.37140	.36610	754.96000
.980	23.642	2.33680	2075.79999	.36170	.35820	.35830	.35860	.36170	.36230	.37670	753.21000
.978	25.895	2.40580	2076.50000	.35040	.35150	.35160	.35130	.35210	.35400	.36760	754.42000
.979	26.646	.00314	.84674	-.00016	-.08026	.00000	.00037	-.09009	-.00078	.00259	.45024

RUN NO. 68/ 0 RVAL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
1.052	.079	2.28230	2041.89999	.36250	.36340	.36250	.36170	.36200	.36100	.34640	785.64000
1.053	4.308	2.29200	2044.00000	.35840	.35860	.35950	.36030	.35940	.36000	.35180	787.23000
1.051	6.442	2.30720	2040.50000	.36250	.36280	.36180	.36190	.36150	.36000	.35630	784.47000
1.049	8.481	2.32200	2039.80000	.36080	.36080	.36020	.35950	.35930	.36000	.35770	783.47000
1.054	10.757	2.32110	2043.30000	.35850	.35720	.35710	.35780	.35890	.36030	.35770	785.65000
1.050	12.929	2.32040	2040.50000	.35590	.35726	.35640	.35550	.35520	.35400	.35590	784.75000
1.051	15.103	2.29680	2041.89999	.34740	.34910	.34100	.33900	.35200	.35090	.35330	785.01000
1.049	17.331	2.34180	2040.50000	.34480	.34510	.34360	.34110	.34290	.34240	.34820	782.38000
1.052	19.502	2.33340	2043.30000	.33800	.33840	.33800	.33690	.33800	.33820	.34160	784.29000
1.048	21.629	2.33970	2041.20000	.33270	.33410	.33270	.33480	.33210	.33290	.33780	783.01000
1.057	23.723	2.34310	2045.79999	.31730	.31810	.31660	.31670	.31870	.31790	.32920	789.94000
1.057	25.786	2.35530	2042.60001	.30980	.30940	.30720	.31210	.31700	.31150	.32150	788.59000
1.052	26.758	2.41540	2043.30000	.30880	.30880	.30720	.30650	.30580	.30670	.31550	786.49000
		.00589	.33217	-.00014	-.00014	-.00016	.00005	-.00012	.00036	.00234	-.27752

(BE7R16) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 2.008 ELEVON = .008
AIRLON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 71/ 0 RNL = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1P5F1
1.089	.051	2.27180	2011.50000	.33650	.33680	.33670	.33700	.33750	.33720	.32330	797.49000
1.104	2.177	2.30070	2015.00000	.33670	.33670	.33710	.33690	.33750	.33680	.32880	799.53000
1.100	4.302	2.29940	2015.00000	.33460	.33530	.33520	.33480	.33560	.33470	.33137	799.53000
1.098	6.436	2.30930	2012.89999	.33490	.33520	.33470	.33420	.33480	.33440	.33250	797.75000
1.097	8.597	2.31950	2015.00000	.33280	.33350	.33360	.33240	.33280	.33310	.33250	798.15000
1.097	10.732	2.31890	2015.00000	.33180	.33130	.33178	.33150	.33210	.33160	.33220	798.15000
1.098	12.932	2.29930	2014.30000	.32860	.32830	.32848	.32860	.32820	.32880	.33050	798.05000
1.100	15.118	2.34400	2016.39999	.32170	.32150	.32180	.32180	.32150	.32100	.32520	798.80000
1.099	17.346	2.34110	2015.00000	.31850	.31740	.31870	.31870	.31850	.31780	.32520	798.80000
1.100	19.502	2.32930	2017.60000	.31580	.31540	.31560	.31441	.31480	.31390	.31930	800.34000
1.101	21.625	2.32240	2017.10001	.30550	.30530	.30560	.30530	.30568	.30530	.31350	800.48000
1.093	23.717	2.32930	2017.80000	.30270	.30270	.30280	.30250	.30280	.30170	.30810	800.48000
1.093	25.801	2.35680	2017.10001	.28810	.28740	.28890	.28980	.28730	.28770	.30140	799.93000
1.099	26.765	2.42250	2015.70000	.28770	.28880	.28840	.28950	.28950	.28680	.29690	799.11000
	GRADIENT	.00555	.82326	-.00045	-.00035	-.00035	-.00052	-.00047	-.00052	.00188	.47984

RUN NO. 78/ 0 RNL = 4.25 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1P5F1
1.149	.071	2.27590	2004.39999	.31030	.30830	.30940	.31030	.30940	.30960	.29930	815.79000
1.151	2.175	2.30680	2002.30000	.30850	.30850	.30750	.30830	.30720	.30780	.30350	815.57000
1.150	4.291	2.31090	2003.00000	.31100	.30970	.31076	.31080	.30990	.31100	.30750	815.49000
1.147	6.426	2.31460	2003.10001	.30970	.30988	.31070	.31090	.31050	.31080	.30640	815.47000
1.148	8.591	2.32198	2004.39999	.30710	.30640	.30710	.30690	.30680	.30540	.30710	815.47000
1.147	10.754	2.31430	2004.39999	.30370	.30430	.30420	.30470	.30320	.30490	.30610	815.08000
1.149	12.932	2.29340	2004.39999	.30140	.30130	.30170	.30040	.30060	.30000	.30370	815.32000
1.150	15.107	2.34420	2004.39999	.29510	.29440	.29550	.29650	.29500	.29610	.29970	815.27000
1.146	17.325	2.34450	2001.60001	.29810	.29800	.29850	.29850	.29850	.29840	.29840	813.54000
1.150	19.483	2.33280	2003.00000	.29090	.29236	.29310	.29260	.29300	.29300	.29370	815.75000
1.149	21.606	2.32420	2003.00000	.28590	.28620	.28610	.28600	.28630	.28600	.29330	815.25000
1.152	23.714	2.33050	2005.50000	.28150	.28300	.28200	.28170	.28170	.28230	.28930	817.68000
1.148	25.801	2.35380	2003.79000	.27100	.27050	.27680	.27110	.27120	.27260	.28158	815.17000
1.146	26.765	2.41550	2003.00000	.27260	.27180	.27296	.27340	.27340	.27300	.27760	814.06000
	GRADIENT	.00829	-.33115	.00817	.00033	.00831	.00012	.00019	.00053	.00194	-.07107

(BE7R18) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-09+)

ARC 11-97-87-09+ 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = 2.000 ELEVON = .080
 AILRON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 84/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	GRPSF
1.201	.050	2.29310	2005.10001	.28090	.28100	.28060	.28150	.28180	.28080	.27490	833.67000
1.200	2.162	2.29310	2007.89999	.28270	.28250	.28240	.28230	.28250	.28170	.27770	834.58000
1.199	4.274	2.29360	2005.80000	.28140	.28180	.28230	.28190	.28090	.28080	.27940	833.46000
1.197	6.420	2.30700	2007.89999	.28260	.28250	.28310	.28310	.28500	.28470	.28170	833.60000
1.199	8.583	2.31680	2007.89999	.27930	.28010	.27970	.28000	.28040	.27980	.28081	833.99000
1.195	10.748	2.30980	2006.50000	.27850	.27834	.27780	.27820	.27830	.27870	.28030	832.65000
1.197	12.928	2.29580	2011.50000	.27320	.27280	.27200	.27230	.27240	.27200	.27240	832.85000
1.195	15.099	2.33360	2006.50000	.26660	.26730	.26800	.26800	.26730	.26830	.26910	833.40000
1.195	17.320	2.33840	2007.89999	.26210	.26160	.26210	.26210	.26150	.26050	.26470	833.59000
1.194	19.481	2.32490	2003.39999	.26150	.26330	.26280	.26170	.26470	.26400	.26430	833.46000
1.189	21.601	2.30580	2005.80000	.26430	.26420	.26550	.26520	.25920	.25760	.26120	832.70000
1.191	23.709	2.32890	2010.10001	.26050	.26070	.25970	.25850	.25340	.25290	.25780	831.91000
1.189	25.797	2.35140	2010.10001	.25770	.25880	.25660	.25510	.25340	.25290	.25430	832.42000
1.194	26.822	2.35710	2007.20000	.25200	.25100	.25170	.25050	.24970	.25000	.25430	832.42000
	GRADIENT	.00083	.16575	.00012	.00079	.00040	.00003	-.00002	.00000	.00007	-.04970

RUN NO. 88/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	GRPSF
1.297	.056	2.28830	2005.10001	.23510	.23470	.23480	.23430	.23430	.23420	.22750	855.64000
1.299	2.147	2.32100	2003.70000	.23410	.23400	.23480	.23420	.23490	.23410	.23080	855.30000
1.296	4.288	2.32850	2003.70000	.23520	.23510	.23610	.23550	.23560	.23570	.23320	854.95000
1.295	6.382	2.30360	2004.39999	.23540	.23510	.23570	.23570	.23620	.23560	.23390	854.18000
1.295	8.552	2.31400	2003.70000	.23470	.23490	.23500	.23540	.23450	.23450	.23390	854.83000
1.294	10.717	2.31450	2004.39999	.23260	.23260	.23250	.23240	.23260	.23280	.23320	854.94000
1.294	12.893	2.30060	2004.39999	.23000	.22950	.22880	.22880	.22910	.22970	.23170	854.94000
1.294	15.061	2.30690	2004.39999	.22470	.22480	.22480	.22540	.22530	.22540	.22870	854.94000
1.294	17.276	2.35860	2003.70000	.22240	.22260	.22280	.22210	.22220	.22220	.22570	854.72000
1.293	19.434	2.32980	2004.39999	.21900	.21840	.21890	.21920	.22030	.21890	.22290	854.62000
1.291	21.565	2.32000	2005.10001	.21850	.21830	.21820	.21790	.21820	.21830	.22110	854.62000
1.295	23.670	2.32560	2005.60000	.21760	.21650	.21670	.21650	.21750	.21800	.21950	855.63000
1.292	25.779	2.35450	2006.50000	.21220	.21200	.21160	.21140	.21140	.21100	.21580	855.40000
1.293	26.812	2.35020	2006.50000	.20890	.20890	.20890	.20810	.20820	.20800	.21320	855.52000
	GRADIENT	.00956	-.33259	.00002	.00024	.00031	.00052	.00031	.00035	.00136	-.16418

TABULATED DATA - 0A161 (ARC 11-97-97-094)

(BE7R16) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = .000 BDFIAP = -7.170

RUN NO. 94/ 0 RV/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	CMPSF1
1.401	.030	2.25650	2029.89999	.19520	.19540	.19520	.19540	.19530	.19530	.19160	875.17000
1.401	2.122	2.27330	2023.89999	.19500	.19640	.19620	.19620	.19610	.19570	.19360	875.17000
1.400	4.236	2.34330	2029.89999	.19660	.19570	.19630	.19630	.19610	.19650	.19490	875.16000
1.400	6.364	2.33140	2023.89999	.19630	.19820	.19810	.19850	.19850	.19850	.19590	875.16000
1.399	8.519	2.31730	2030.60001	.19790	.19730	.19760	.19770	.19830	.19770	.19730	875.16000
1.397	10.672	2.31590	2031.30000	.19430	.19420	.19410	.19390	.19380	.19420	.19560	875.16000
1.399	12.843	2.30140	2030.60001	.19040	.19040	.19040	.19050	.19050	.19080	.19310	875.16000
1.398	15.006	2.32310	2031.30000	.19000	.19000	.18950	.19010	.18950	.18960	.19200	875.16000
1.399	17.225	2.34430	2029.89999	.18890	.18890	.18680	.18670	.18650	.18710	.19200	875.16000
1.401	19.389	2.31560	2050.39999	.18530	.18520	.18510	.18510	.18470	.18460	.18660	875.16000
1.397	21.520	2.29020	2051.79999	.18610	.18600	.18540	.18550	.18510	.18530	.18590	875.16000
1.399	23.636	2.33630	2049.00000	.18599	.18600	.18590	.18570	.18590	.18590	.18530	875.16000
1.399	25.743	2.33560	2049.00000	.17720	.17800	.17740	.17731	.17730	.17650	.18250	875.16000
1.395	26.784	2.31700	2043.30000	.17600	.17570	.17530	.17570	.17550	.17550	.17960	875.16000
	GRADIENT	.00066	.00000	.00033	.00007	.00026	.00021	.00019	.00029	.00078	.00237

RUN NO. 324/ 0 RV/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	CMPSF1
1.556	.034	1.52120	1536.20000	.14460	.14480	.14480	.14480	.14470	.14440	.14530	653.60000
1.556	2.023	1.53170	1536.20000	.14500	.14510	.14490	.14490	.14450	.14510	.14490	653.60000
1.556	4.100	1.52240	1536.20000	.14520	.14510	.14520	.14490	.14520	.14510	.14510	653.60000
1.556	6.172	1.52130	1536.89999	.14730	.14650	.14700	.14700	.14650	.14650	.14650	653.60000
1.556	8.243	1.52190	1536.89999	.14380	.14330	.14470	.14600	.14380	.14300	.14300	653.60000
1.556	10.308	1.52240	1536.20000	.13920	.13970	.13910	.13930	.13970	.13920	.13920	653.60000
1.556	12.355	1.52530	1536.89999	.13660	.13700	.13670	.13640	.13650	.13680	.13640	653.60000
1.556	14.431	1.52840	1536.89999	.13420	.13370	.13350	.13340	.13350	.13250	.13270	653.60000
1.556	16.574	1.53150	1536.89999	.13220	.13240	.13240	.13240	.13220	.13250	.13270	653.60000
1.556	18.669	1.53340	1536.89999	.13010	.13040	.13040	.13010	.13000	.13030	.13030	653.60000
1.556	20.700	1.54050	1537.60001	.12910	.12920	.12910	.12910	.12900	.12910	.12890	653.60000
1.556	22.789	1.54370	1542.60001	.12300	.12310	.12310	.12310	.12310	.12240	.12280	653.60000
1.556	24.864	1.54930	1542.70000	.11530	.11610	.11580	.11580	.11580	.11500	.11580	653.60000
1.556	25.882	1.55150	1543.30000	.11380	.11360	.11390	.11350	.11380	.11330	.11390	653.60000
	GRADIENT	.00026	.00001	.00015	.00007	.00015	.00002	.00012	.00019	.00005	.00000

UNCLASSIFIED DATA - OALSI (ARC 11-97-87-094)

ARC 11-97-87-094 0A167 ORBITER

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.6800	IN.	XO
LREF	=	474.8000	IN.	YMRP	=	.0000	IN.	YO
SRPE	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCAPE	=	.0300						

RUN NO: 3277 0 RN%L = 3.06 GRADIENT INTERVAL = -5.00# 5.00

P177PT	Q155F1
10240	663.43000
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10240	664.00000
10230	664.00000
10130	664.00000
09730	664.28000
09590	664.00000
09290	664.00000
09120	664.28000
09090	664.28000
08930	664.28000
08220	664.00000
07080	663.71000
07000	663.13980

PT5/PT	PT6/PT
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-10240	-10230
-10210	-10220
-10270	-10300
-10030	-10040
-09710	-09728
-09560	-09560
-09270	-09290
-09150	-09100
-09100	-09190
-08550	-08550
-08230	-08260
-07970	-07980
-00005	-00000

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07920	

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RUN	NO	TA
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0770	1	
0350	1	
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0540	1	
0820	1	
1230	1	
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1980	1	
2550	1	
2910	1	
3320	1	

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DATE - 7-05 GRADIENT INTERVAL = -5.00' 5.00

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PT7/PT	Q1P5/F
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06010	651.15000
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06970	651.15000
07000	651.15000

P15/PT	P16/PT
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05900	05940
06020	06020
05990	05980
05740	05770
05630	05630
05340	05330
05250	05270
05330	05330
05140	05110
05000	04950
04790	04740
04650	04670
04760	04760
05020	05020

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.04670
.04760
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PT3/PF
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12/2PT
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TABULATED DATA - OAT61 (ARC 11-97-87-09+)
ARC 11-97-87-09+ OAT161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0380

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .090 EDFLAP = -7.170

RUN NO. 346/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PF	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	O(PSE)
2.249	-1.02	1.07220	2070.20001	.03590	.03590	.03700	.03700	.03690	.03690	.03680	634.80000
2.249	1.873	1.07130	2070.20001	.03520	.03530	.03560	.03560	.03570	.03560	.03560	634.80000
2.249	3.927	1.07630	2070.89999	.03470	.03510	.03490	.03480	.03470	.03510	.03490	635.02000
2.249	5.985	1.07940	2070.89999	.03750	.03760	.03770	.03760	.03780	.03780	.03760	635.02000
2.249	8.039	1.08980	2070.20001	.03640	.03640	.03680	.03660	.03700	.03680	.03680	634.80000
2.249	10.091	1.07160	2070.20001	.03450	.03430	.03430	.03430	.03440	.03420	.03440	634.80000
2.249	12.128	1.09080	2070.89999	.03210	.03240	.03230	.03240	.03240	.03240	.03240	635.02000
2.249	14.207	1.08580	2070.20001	.03150	.03160	.03150	.03150	.03140	.03180	.03160	634.80000
2.249	16.339	1.07460	2070.20001	.03110	.03120	.03110	.03130	.03090	.03090	.03090	634.80000
2.249	20.429	1.08210	2070.20001	.02980	.02930	.02900	.02930	.02930	.02930	.02930	634.80000
2.249	22.541	1.09600	2070.20001	.02870	.02860	.02850	.02850	.02850	.02880	.02880	634.80000
2.249	24.558	1.10270	2070.20001	.02870	.02880	.02870	.02870	.02840	.02840	.02840	634.80000
2.249	25.577	1.09100	2070.20001	.02760	.02810	.02780	.02820	.02800	.02800	.02810	634.80000
GRADIENT		.00103	.17486	-.00054	-.00044	-.00052	-.00054	-.00055	-.00045	-.00047	.03495

RUN NO. 419/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	O(PSE)
2.499	2.116	2.10010	1461.89999	.03060	.03040	.03030	.03030	.03010	.03010	.03010	374.72000
2.499	2.152	2.08860	1464.00000	.02980	.02940	.02950	.02950	.02940	.02940	.02920	375.26000
2.499	4.188	2.08010	1463.30000	.02860	.02850	.02850	.02860	.02860	.02860	.02860	375.08000
2.499	6.220	2.07150	1463.30000	.02880	.02870	.02870	.02880	.02880	.02880	.02870	375.08000
2.499	8.255	2.06530	1463.30000	.02880	.02870	.02870	.02880	.02870	.02880	.02870	375.08000
2.499	10.295	2.06110	1463.30000	.02730	.02720	.02690	.02710	.02710	.02710	.02730	375.08000
2.499	12.338	2.05830	1463.30000	.02550	.02540	.02540	.02540	.02550	.02570	.02570	375.08000
2.499	14.379	2.05650	1463.30000	.02460	.02460	.02450	.02450	.02480	.02480	.02480	375.08000
2.499	16.426	2.05580	1465.50000	.02430	.02430	.02410	.02410	.02420	.02430	.02440	375.26000
2.499	18.468	2.05760	1464.00000	.02400	.02390	.02400	.02390	.02390	.02400	.02380	375.26000
2.499	20.508	2.06020	1465.50000	.02380	.02370	.02370	.02370	.02370	.02350	.02330	375.26000
2.499	22.558	2.06500	1464.80000	.02240	.02210	.02210	.02240	.02250	.02250	.02250	375.44000
2.499	24.605	2.07120	1434.80000	.02210	.02210	.02190	.02190	.02190	.02190	.02200	375.44000
2.499	25.626	2.07480	1465.50000	.02240	.02220	.02210	.02210	.02210	.02210	.02210	375.62000
GRADIENT		-.00491	.34413	-.00049	-.00047	-.00044	-.00042	-.00037	-.00032	-.00037	.03649

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PAGE 415

(BETRIS) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09+)

ARC 11-97-87-09+ 0A161 ORBITER

REFERENCE DATA

SREF = 2590.000 SQ.FT. XMRP = 1075.5800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 956.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 422/ 0

RN/L = 1.95

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
3.040	.096	2.22890	1971.28000	.01310	.01320	.01320	.01310	.01320	.01310	.01310	327.08000
3.040	2.108	2.21930	1972.50001	.01260	.01260	.01260	.01260	.01260	.01260	.01260	327.32000
3.040	4.132	2.20830	1972.50001	.01250	.01250	.01250	.01250	.01250	.01250	.01250	327.32000
3.040	6.164	2.20240	1974.70000	.01190	.01190	.01200	.01200	.01200	.01200	.01200	327.57000
3.040	8.197	2.19430	1974.00000	.01170	.01160	.01160	.01170	.01170	.01170	.01180	327.55000
3.040	10.228	2.18560	1974.00000	.01130	.01120	.01130	.01130	.01130	.01130	.01130	327.55000
3.040	12.264	2.18640	1974.00000	.01070	.01060	.01060	.01040	.01050	.01050	.01050	327.55000
3.040	14.295	2.18490	1974.00000	.01040	.01030	.01020	.01030	.01030	.01030	.01030	327.55000
3.040	16.326	2.18330	1974.00000	.01030	.01020	.01010	.01020	.01020	.01020	.01020	327.55000
3.040	18.356	2.18500	1974.00000	.01020	.01010	.01000	.00990	.00980	.00980	.00990	327.55000
3.040	20.401	2.18870	1974.00000	.01000	.01000	.01020	.00970	.00970	.00970	.00970	327.55000
3.040	22.442	2.19350	1974.00000	.01020	.01000	.00990	.00980	.00970	.00970	.00970	327.55000
3.040	24.478	2.19320	1974.00000	.01000	.01000	.00990	.00980	.00970	.00970	.00970	327.55000
3.040	25.497	2.20200	1974.00000	.00990	.00990	.00990	.00980	.00970	.00970	.00970	327.55000
3.040	GRADIENT	-.00508	34556	-.00015	-.00017	-.00017	-.00015	-.00017	-.00015	-.00015	.75930

RUN NO. 429/ 0

RN/L = 2.00

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
3.499	-.172	2.25340	2682.70001	.00740	.00720	.00720	.00730	.00730	.00730	.00730	301.92000
3.499	1.853	2.24250	2684.79999	.00730	.00720	.00710	.00700	.00700	.00700	.00710	302.15000
3.499	3.873	2.23110	2681.25999	.00720	.00710	.00700	.00690	.00690	.00690	.00690	301.75000
3.499	5.901	2.22310	2685.50000	.00680	.00670	.00660	.00650	.00650	.00650	.00650	302.24000
3.499	7.920	2.21690	2684.10001	.00630	.00620	.00610	.00600	.00600	.00600	.00610	302.19000
3.499	9.947	2.21220	2683.39999	.00570	.00560	.00550	.00540	.00540	.00540	.00550	302.00000
3.499	11.976	2.20880	2682.70001	.00500	.00490	.00480	.00470	.00470	.00470	.00480	301.84000
3.499	14.010	2.20810	2682.00000	.00550	.00540	.00530	.00520	.00520	.00520	.00530	301.92000
3.499	16.043	2.20590	2682.70001	.00530	.00520	.00510	.00500	.00500	.00500	.00510	302.00000
3.499	18.075	2.20730	2684.10001	.00530	.00520	.00510	.00500	.00500	.00500	.00510	301.92000
3.499	20.109	2.21360	2682.70001	.00520	.00510	.00500	.00490	.00490	.00490	.00500	302.00000
3.499	22.139	2.21600	2683.39999	.00510	.00500	.00490	.00480	.00480	.00480	.00490	301.92000
3.499	24.178	2.22030	2682.70001	.00510	.00500	.00490	.00480	.00480	.00480	.00490	302.00000
3.499	25.196	2.22290	2683.39999	.00530	.00520	.00510	.00500	.00500	.00500	.00510	302.00000
3.499	GRADIENT	-.00551	34545	-.00005	-.00005	-.00002	-.00007	-.00007	-.00005	-.00007	-.03948

(EETRJ3) 1 02 AUG 75)

TABULATED DATA - OAL61 (ARC 11-97-87-094)

ARC 11-97-87-094 OAL61 ORBITER

REFERENCE DATA

SPEF = 2680.0000 SQ.FT. XMRP = 1075.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0800 IN. Y0
 BREF = 986.6800 IN. ZMRP = 575.0000 IN. Z0
 SCALE = .0300

BETA =
 AIRPCN =

5.000 ELEVON = .000
 5000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 28* 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	D(PSF)
.595	.110	5.34110	2578.70901	.74610	.74760	.74760	.74830	.74590	.74780	.74110	502.74000
.596	2.152	5.35570	2572.39999	.74710	.74570	.74730	.74730	.74750	.74520	.74440	503.96000
.595	4.218	5.37430	2580.10001	.74720	.74700	.74680	.74680	.74750	.74770	.74550	504.51000
.595	6.303	5.37840	2579.39999	.74610	.74600	.74630	.74550	.74620	.74620	.74580	503.92000
.595	8.393	5.38380	2580.10001	.74750	.74690	.74710	.74730	.74730	.74670	.74630	504.51000
.595	10.516	5.37830	2580.10001	.74710	.74690	.74780	.74750	.74740	.74720	.74680	505.09000
.596	12.637	5.37290	2580.79999	.74550	.74540	.74540	.74550	.74570	.74540	.74520	505.11000
.594	14.748	5.35440	2590.79999	.74500	.74520	.74210	.74220	.74330	.74330	.74280	502.78000
.595	16.852	5.36820	2590.79999	.74150	.74150	.74110	.74110	.74010	.74100	.74050	504.53000
.595	18.967	5.37110	2580.10001	.73680	.73780	.73780	.73820	.73740	.73810	.73750	504.53000
.594	21.059	5.37930	2590.10001	.73610	.73530	.73570	.73570	.73570	.73520	.73520	502.18000
.595	23.147	5.38900	2580.79999	.73350	.73390	.73280	.73230	.73280	.73130	.73520	503.35000
.595	25.152	5.40730	2591.50000	.72960	.72810	.72970	.72890	.72840	.72720	.73080	503.37000
.595	26.088	5.43040	2580.79999	.71950	.72010	.72100	.72140	.71960	.72040	.72870	503.35000
	GRADIENT	.00807	.34076	-.00022	-.00015	-.00019	-.00051	.00017	-.00002	.00102	.43553

RUN NO. 38/ 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	D(PSF)
.597	.100	5.35310	2309.20001	.67370	.67350	.67380	.67380	.67300	.67270	.66230	567.26000
.698	2.144	5.33320	2310.70001	.67190	.67130	.67220	.67170	.67600	.67290	.67140	568.94000
.698	4.233	5.38400	2310.70001	.67130	.67120	.67200	.67220	.67260	.67280	.67190	568.94000
.697	6.329	5.38540	2310.70001	.67030	.67210	.67200	.67200	.67180	.67120	.67120	568.40000
.699	8.437	5.39730	2310.70001	.67150	.67110	.67190	.67190	.67190	.67190	.67210	568.94000
.595	10.555	5.39130	2309.89999	.67220	.67310	.67290	.67390	.67410	.67340	.67340	568.25000
.595	12.684	5.37570	2309.89999	.67090	.65940	.66940	.67170	.67070	.67310	.67260	566.22000
.697	14.798	5.38410	2332.60001	.66640	.66450	.66480	.66480	.66560	.66510	.65770	573.45000
.697	16.936	5.38490	2332.60001	.66050	.66030	.66120	.66210	.66160	.66080	.66130	573.99000
.697	19.057	5.39510	2333.29999	.65850	.65800	.65760	.65630	.65590	.65590	.65560	573.48000
.695	21.174	5.40830	2331.89999	.65490	.65420	.65500	.65590	.65590	.65590	.65740	572.36000
.695	23.264	5.41950	2332.60001	.64780	.64420	.64940	.65000	.65210	.65390	.65400	571.84000
.596	25.273	5.41950	2332.60001	.62920	.63390	.63270	.63270	.63270	.63270	.63480	571.84000
.595	26.158	5.46400	2332.60001	.62920	.62650	.62560	.62530	.62570	.62450	.63440	571.31000
	GRADIENT	.00753	.35169	-.00058	-.00055	-.00019	-.00038	-.00010	.00002	.00032	.40225

(BETR17) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALTRON = -7.170

TABULATED DATA - 0A161 (ARC 11-87-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SOLFT. XMRP = 1076.6808 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 39/ 0 RVAL = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(P5)1
.800	.077	5.35340	2177.70001	.59410	.59430	.59370	.59330	.59280	.59320	.59440	639.67000
.801	2.151	5.38270	2177.70001	.59330	.59390	.59410	.59400	.59350	.59440	.62890	640.64000
.799	4.286	5.39300	2177.70001	.59290	.59400	.59450	.59490	.59420	.59330	.61730	639.19000
.799	6.353	5.40020	2178.39999	.59430	.59440	.59370	.59508	.59330	.59330	.60440	638.74000
.797	8.478	5.40290	2178.39999	.59510	.59440	.59680	.59660	.59310	.59430	.60020	637.29000
.792	10.608	5.39490	2179.10001	.59310	.59440	.59380	.59228	.59290	.59060	.59610	638.78000
.801	12.741	5.39810	2199.60001	.59340	.59350	.59260	.59280	.59068	.59210	.58160	647.23000
.798	14.863	5.40568	2201.05800	.58580	.58460	.58528	.58460	.58428	.58470	.58830	644.89000
.800	16.998	5.42250	2201.70001	.58170	.57820	.57930	.57930	.58030	.57940	.58350	647.35000
.799	19.138	5.43560	2201.00000	.57020	.57050	.57220	.57310	.57650	.57440	.58050	645.85000
.794	21.246	5.44370	2198.20001	.55030	.55280	.55110	.55240	.57290	.55260	.57750	643.36000
.798	23.331	5.44250	2198.89999	.53970	.53790	.53840	.53840	.55038	.54060	.55610	641.37000
.794	25.341	5.44830	2198.89999	.53970	.53810	.53660	.53710	.53850	.53560	.54750	643.31000
.797	26.286	5.50290	2198.89999	.53740	.53810	.53660	.53710	.53850	.53560	.54750	643.31000
	GRADIENT	.69948	.00000	.00029	.00802	.00019	.00038	.00034	.00002	.00980	-1.1623

RUN NO. 48/ 0 RVAL = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(P5)1
.851	.077	5.37230	2167.10601	.55310	.55190	.55290	.55420	.55400	.55460	.53580	684.02000
.850	2.157	5.39110	2167.10001	.55290	.55280	.55260	.55380	.55400	.55380	.54350	683.56000
.850	4.286	5.40020	2167.10001	.55340	.55490	.55630	.55490	.55550	.55520	.54868	683.56000
.849	6.384	5.39770	2166.39999	.55340	.55410	.55410	.55460	.55520	.55460	.55150	682.13000
.848	8.502	5.40228	2167.10001	.55450	.55470	.55450	.55380	.55490	.55190	.55100	681.72000
.845	10.633	5.39660	2166.39999	.55490	.55360	.55410	.55300	.55490	.55440	.55210	679.85000
.845	12.738	5.40280	2166.39999	.55490	.55360	.55410	.55300	.55490	.55440	.55210	679.85000
.845	14.892	5.41680	2166.39999	.54920	.54750	.54750	.54700	.54630	.54580	.54910	679.85000
.846	17.029	5.43480	2167.10001	.54260	.54150	.54280	.54300	.53950	.54080	.54470	679.44000
.846	19.177	5.44930	2167.10001	.53630	.53400	.53250	.53140	.53290	.53610	.54090	681.22000
.846	21.307	5.45790	2166.39999	.52460	.52330	.52560	.52630	.52540	.52190	.53360	681.22000
.844	23.369	5.45090	2167.79999	.49380	.49990	.50100	.49810	.50260	.49350	.50880	680.86000
.847	25.480	5.45340	2167.79999	.48010	.49040	.49140	.49430	.49400	.48200	.49738	684.48000
.851	26.333	5.45520	2167.10001	.48170	.48270	.47980	.48210	.48080	.48200	.49738	684.48000
	GRADIENT	.00666	.00000	.00007	.00072	.00081	.00017	.00036	.00014	.00305	-1.10958

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

PAGE 418
(BETR17) (02 AUG 75)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
ALTRON =

5.000 ELEVON = .000
.000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 49/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.899	.077	5.36790	2126.10001	.51560	.51680	.51460	.51410	.51410	.51410	.52350	712.16000
.901	2.173	5.39690	2125.79999	.51340	.51280	.51160	.51140	.51140	.51260	.51920	713.91000
.899	4.282	5.40590	2126.10001	.51840	.51780	.51660	.51640	.51640	.51560	.51780	711.73000
.904	6.405	5.41170	2126.79999	.51460	.51400	.51280	.51260	.51260	.51180	.51500	712.68000
.908	8.522	5.41360	2126.10001	.51460	.51400	.51280	.51260	.51260	.51180	.51500	710.87000
.897	10.658	5.41500	2126.79999	.51280	.51220	.51100	.51080	.51080	.50940	.51350	710.49000
.895	12.791	5.39880	2126.79999	.51100	.50920	.50700	.50400	.50330	.50330	.50780	710.49000
.896	14.929	5.42120	2126.79999	.50510	.50420	.50270	.50000	.49850	.49850	.50940	709.63000
.899	17.082	5.43810	2126.79999	.50030	.49780	.49480	.48770	.48650	.48650	.50450	712.22000
.898	19.234	5.44940	2127.50000	.48940	.48780	.48480	.47730	.47630	.47630	.49560	711.42000
.894	21.349	5.45250	2126.79999	.47590	.47560	.47210	.46330	.46190	.46190	.47390	707.89000
.895	23.409	5.45240	2126.79999	.45700	.45610	.45200	.44320	.44190	.44190	.45920	709.19000
.896	25.482	5.44410	2128.20001	.43940	.43940	.43810	.43100	.43100	.43070	.44990	710.61000
.898	26.405	5.51500	2127.50000	.43800	.43940	.43810	.43100	.43100	.43070	.44990	711.85000
	GRADIENT	.00903	-.00033	.00057	.00019	.00057	.00055	.00012	.00035	-.00135	-.10317

RUN NO. 59/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.949	.083	5.36850	2085.70001	.46410	.46430	.46260	.46180	.46180	.46180	.44060	736.36000
.951	2.188	5.39920	2085.70001	.46410	.46370	.46260	.46260	.46180	.46180	.45070	737.92000
.950	4.307	5.39450	2085.00000	.46410	.46340	.46220	.46190	.46150	.46150	.45610	736.68000
.948	6.440	5.39850	2085.70001	.47020	.46890	.46630	.46310	.46310	.46310	.46280	735.97000
.948	8.574	5.41540	2085.70001	.46210	.46170	.46070	.46070	.46110	.46070	.46070	735.97000
.950	10.730	5.40050	2085.39999	.45670	.45740	.45890	.46070	.45990	.45990	.46020	737.60000
.949	12.862	5.37590	2085.70001	.45560	.45480	.45480	.45630	.45710	.45710	.45880	736.36000
.948	15.016	5.40030	2085.70001	.44420	.44480	.44680	.44340	.44750	.44750	.45320	735.97000
.948	17.167	5.41660	2085.00000	.44480	.44480	.44320	.43970	.44110	.43990	.44630	735.51000
.952	19.342	5.42330	2087.20001	.43140	.43310	.42770	.42930	.43210	.43240	.44060	738.65000
.949	21.455	5.43630	2086.39999	.41690	.41820	.41720	.41740	.42070	.42070	.43210	736.82000
.948	23.531	5.45890	2085.70001	.39780	.39570	.39340	.39720	.39860	.39720	.41640	735.97000
.951	25.574	5.45420	2086.00001	.38910	.38910	.38850	.38850	.38910	.38910	.40390	739.01000
.947	26.484	5.52280	2085.00000	.38340	.38710	.38280	.38340	.38340	.38340	.39560	734.74000
	GRADIENT	.00591	-.16591	.00000	-.00021	-.00010	.00012	-.00010	.00019	.00367	.07029

(BETR17) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-89+)

ARC 11-97-87-89+ 0A161 ORBITER

REFERENCE DATA

9REF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
PREF = 936.6800 IN. ZMRP = 373.0000 IN. ZO
SCALE = .0300

RUN NO. 601 0 RNAL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.981	.085	5.35640	2076.50000	.42500	.42180	.42180	.42400	.42340	.42360	.42500	755.16000
.980	2.188	5.38790	2075.79999	.42750	.42620	.42660	.42570	.42460	.42360	.42540	754.70000
.981	4.317	5.40160	2076.50000	.42540	.42590	.42540	.42550	.42490	.42430	.42460	753.53000
.979	6.455	5.39930	2075.79999	.42460	.42530	.42540	.42540	.42500	.42320	.42430	753.96000
.981	8.602	5.40130	2076.00000	.42340	.42030	.41960	.42290	.42190	.41970	.42220	756.70000
.982	10.755	5.38490	2076.00000	.42030	.42060	.41940	.42130	.42250	.42070	.42190	755.33000
.977	12.899	5.38210	2073.70001	.42510	.42780	.42730	.42130	.42130	.41930	.42010	751.84000
.977	15.056	5.39370	2075.10001	.41810	.41310	.41120	.41770	.41580	.41550	.41750	752.38000
.980	17.218	5.43530	2077.29999	.40280	.39290	.39260	.40160	.40110	.40000	.40840	756.24000
.979	19.381	5.43750	2076.50000	.39520	.39290	.39260	.38940	.38960	.39020	.40240	754.04000
.973	21.523	5.44630	2076.50000	.38700	.38850	.38950	.38940	.38960	.39020	.39500	754.87000
.980	23.694	5.44600	2077.29999	.37110	.37230	.37220	.37220	.37230	.37120	.37630	754.79000
.980	25.690	5.46650	2076.50000	.36120	.36020	.35960	.36450	.36350	.36490	.37210	752.84000
.977	26.559	5.50280	2075.79999	.36830	.36820	.36530	.36780	.36680	.36520	-.00010	.08806
	GRADIENT	.07067	.00067	.00009	.00009	.00085	.00035	.00035	.00817		

RUN NO. 697 0 RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.050	.095	5.38510	2040.50000	.35990	.36100	.36200	.36160	.36160	.36160	.34708	784.15000
1.052	2.205	5.41300	2042.60001	.35830	.35930	.36000	.35870	.35770	.35840	.35160	786.06000
1.050	4.330	5.39760	2040.50000	.35880	.35880	.35800	.35830	.35860	.35940	.35490	783.84000
1.048	6.470	5.40530	2039.80000	.35200	.35860	.36000	.35740	.35740	.35900	.35690	782.78000
1.052	8.620	5.40920	2044.00000	.35200	.35160	.35240	.35110	.35100	.35200	.35400	786.29000
1.050	10.785	5.38700	2032.00000	.35190	.35090	.35260	.34960	.34960	.35060	.35350	780.91000
1.048	12.932	5.38520	2028.50000	.34970	.34970	.35060	.35040	.34980	.34980	.35220	778.14000
1.050	15.093	5.40420	2031.30000	.34500	.34620	.34780	.34770	.34550	.34650	.34920	780.48000
1.048	17.252	5.43850	2029.20000	.34880	.34610	.34610	.34480	.34530	.34680	.34820	778.57000
1.049	19.426	5.45040	2028.50000	.33440	.33380	.33430	.33450	.33400	.33580	.34220	779.08000
1.051	21.574	5.45610	2032.00000	.32900	.33060	.32970	.32960	.32880	.33580	.33580	781.22000
1.048	23.671	5.47480	2030.60001	.32300	.32420	.32310	.32160	.32040	.31960	.32880	779.11000
1.050	25.729	5.47156	2033.39999	.30840	.30840	.30850	.30670	.30850	.30980	.32070	781.34000
1.048	29.650	5.53270	2030.60001	.30460	.30950	.31060	.30940	.31100	.31080	.31670	779.11000
	GRADIENT	.00294	-.00116	-.00026	-.00092	-.00071	-.00078	-.00071	-.00035	.00187	-.07438

(BETR17) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 50.0 FT. XMRP = 1076.8800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 938.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

BETA =
AHLRON =

5.000 ELEVON = .000
.000 BDFLAP = -7.170

PARAMETRIC DATA

RUN NO. 70/ 0. RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.100	.086	5.35620	015.0000	.33050	.33060	.33050	.32980	.33000	.33060	.33600	799.25000
1.100	2.195	5.39310	2013.6000	.33060	.33060	.33050	.33040	.33030	.32960	.33370	798.99000
1.089	4.329	5.39820	2013.6000	.32990	.33010	.32950	.32980	.33020	.33080	.33230	798.16000
1.039	6.470	5.39850	2015.7000	.32780	.32750	.32800	.32830	.32730	.32770	.33000	799.11000
1.099	8.622	5.40440	2015.0000	.32490	.32460	.32500	.32530	.32430	.32470	.32780	798.98000
1.099	10.790	5.38210	2015.7000	.32450	.32480	.32510	.32480	.32440	.32450	.32510	798.63000
1.099	12.940	5.38480	2016.3999	.32450	.32480	.32510	.32480	.32440	.32450	.32510	799.52000
1.099	15.103	5.40530	2015.0000	.32580	.32620	.32620	.32600	.32420	.32390	.32570	799.25000
1.098	17.264	5.44490	2014.3000	.32760	.32820	.32820	.32720	.32370	.32310	.32570	798.02000
1.097	19.442	5.45590	2017.1000	.31590	.31550	.31610	.31680	.31570	.31570	.32090	799.65000
1.097	21.576	5.46320	2015.0000	.30940	.31070	.31100	.30960	.30930	.31560	.31560	799.15000
1.101	23.679	5.47550	2017.1000	.30150	.30200	.30200	.30240	.30120	.30120	.30940	799.65000
1.101	25.755	5.48800	2017.1000	.29760	.29820	.29820	.29860	.29250	.29300	.30440	800.48000
1.098	26.713	5.46910	2012.8999	.29220	.29250	.29250	.29240	.29300	.29270	.29440	797.75000
	GRADIENT	.01130	-.32937	-.00012	-.00024	-.00024	-.00062	.00005	.00005	-.00087	-.25717

RUN NO. 79/ 0. RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.149	.086	5.37980	2013.6000	.30730	.30650	.30640	.30520	.30500	.30500	.45270	819.47000
1.149	2.192	5.39900	2013.6000	.30830	.30760	.30750	.30820	.30800	.30900	.39140	819.70000
1.148	4.314	5.41620	2013.6000	.30710	.30790	.30740	.30730	.30730	.30820	.35560	819.23000
1.147	6.458	5.40810	2013.6000	.30790	.30630	.30600	.30630	.30550	.30570	.33510	818.75000
1.147	8.620	5.41600	2013.6000	.30650	.30730	.30730	.30470	.30380	.30300	.33230	818.92000
1.143	10.790	5.39460	2013.6000	.30400	.30470	.30370	.30210	.30210	.30190	.31490	817.32000
1.145	12.940	5.39340	2015.7000	.30110	.29940	.29960	.30810	.29920	.29880	.30470	818.74000
1.142	15.103	5.41930	2013.6000	.30080	.29910	.29890	.29890	.29860	.29800	.30200	816.83000
1.148	17.263	5.44340	2014.3000	.29970	.29780	.29670	.29670	.29970	.29820	.30200	819.39000
1.141	19.440	5.45920	2015.0000	.29540	.29540	.29670	.29670	.29560	.29580	.29940	817.14000
1.142	21.581	5.46790	2017.8000	.28820	.28790	.28640	.28640	.28860	.28900	.29450	818.71000
1.141	23.683	5.47020	2010.8000	.28590	.28550	.28410	.28410	.28530	.28530	.29190	819.25000
1.149	25.776	5.49760	2015.0000	.27710	.27710	.27690	.27690	.27540	.27600	.28540	820.25000
1.144	26.789	5.49670	2010.8000	.27720	.27710	.27610	.27610	.27590	.27780	.28230	816.46000
	GRADIENT	.00880	.00000	-.00005	.00033	.00024	.00010	.00054	.00028	-.00297	-.05703

TABULATED DATA - QA161 (ARC 11-97-87-09#)
ARC 11-97-87-09# QA161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.8800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
AILRON =

PARAMETRIC DATA

BETA =
AILRON =

RUN NO. 804 0 RNWL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.198	0.084	5.39570	2010.10001	.28190	.28190	.28190	.29120	.29220	.29230	.30290	834.92000
1.199	2.183	5.40760	2003.70000	.28070	.28070	.28070	.28110	.28090	.28140	.28590	832.72000
1.197	4.303	5.41060	2005.10001	.28200	.28150	.28030	.28020	.28030	.28060	.28390	832.49000
1.196	6.449	5.40840	2011.50000	.28020	.27910	.27950	.28020	.28000	.28080	.28230	834.68000
1.195	8.608	5.41610	2005.80000	.28020	.27610	.27530	.27640	.27590	.27610	.27930	832.27000
1.194	10.785	5.39000	2004.39999	.27540	.27410	.27370	.27420	.27380	.27350	.27720	831.12000
1.193	12.934	5.40450	2010.80000	.27290	.27340	.27380	.27320	.27280	.27290	.27540	833.71000
1.192	15.094	5.41820	2009.39999	.27280	.27250	.27250	.27250	.27320	.27210	.27520	834.35000
1.191	17.251	5.44530	2005.10001	.26830	.26810	.26850	.26770	.26870	.26870	.27290	832.10000
1.190	19.423	5.46050	2006.50000	.26750	.26930	.27050	.26550	.26670	.26730	.26990	831.04000
1.189	21.585	5.46340	2012.20000	.26600	.26500	.26500	.26500	.26400	.26410	.26550	833.86000
1.188	23.857	5.46700	2008.60001	.26180	.26260	.26240	.26110	.26070	.25980	.26470	831.76000
1.187	25.763	5.48790	2010.10001	.25740	.25790	.25740	.25710	.25800	.25820	.26200	832.72000
1.186	26.783	5.49270	2008.60001	.25340	.25450	.25460	.25470	.25470	.25450	.25890	833.78000
1.185	GRADIENT	.00353	-1.18205	.00012	-.00009	-.00130	-.00260	-.00296	-.00275	-.00450	-.57515

RUN NO. 89/ 0 RNWL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.294	.072	5.39690	2004.39999	.23190	.23170	.23220	.23180	.23200	.23190	.22650	854.83000
1.298	2.154	5.41390	2005.80000	.23100	.23140	.23110	.23080	.23020	.23050	.22850	856.70000
1.299	4.284	5.42680	2003.70000	.23070	.23060	.23100	.23160	.23220	.23100	.22960	855.30000
1.297	6.422	5.42450	2004.39999	.23150	.23110	.23100	.23090	.23030	.23030	.22970	855.41000
1.293	8.577	5.43780	2003.70000	.22890	.22880	.22940	.22920	.22890	.22880	.22950	854.72000
1.293	10.749	5.39950	2004.39999	.22850	.22770	.22720	.22740	.22730	.22650	.22820	854.72000
1.294	12.894	5.40740	2004.39999	.22710	.22780	.22780	.22700	.22730	.22740	.22820	855.06000
1.293	15.053	5.42930	2004.39999	.22600	.22550	.22570	.22580	.22580	.22490	.22680	854.83000
1.293	17.213	5.44970	2004.39999	.22390	.22400	.22400	.22310	.22320	.22370	.22550	854.72000
1.292	19.390	5.46280	2004.39999	.22190	.22320	.22360	.22470	.22290	.22450	.22450	854.49000
1.288	21.524	5.48080	2005.10001	.22460	.22350	.22390	.22470	.22450	.22440	.22450	854.25000
1.288	23.632	5.47100	2005.80000	.21780	.21320	.21330	.21290	.21610	.21720	.22110	855.06000
1.289	25.737	5.49850	2006.50000	.21470	.21320	.21330	.21290	.21250	.21710	.21710	854.70000
1.288	26.765	5.51380	2005.10001	.21020	.21090	.21010	.21050	.21030	.21150	.21460	855.52000
1.296	GRADIENT	.00710	-.16805	-.00028	-.00026	-.00028	-.00005	.00085	-.00021	.00074	.11051

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

(BETRI7 (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AHLRON = .000 BDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 904 0 RN/L 4.22 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF
1.393	.056	5.38660	2030.60001	.19190	.19270	.19260	.19240	.19260	.19260	.20730	875.45000
1.403	2.138	5.42510	2029.89999	.19330	.19370	.19320	.19270	.19300	.19300	.20130	875.21000
1.399	4.258	5.42150	2030.60001	.19370	.19370	.19390	.19350	.19340	.19370	.19790	875.45000
1.399	6.394	5.44810	2030.60001	.19310	.19370	.19370	.19370	.19390	.19360	.19620	875.43000
1.387	8.538	5.43840	2030.60001	.19220	.19250	.19250	.19210	.19290	.19230	.19460	875.40000
1.384	10.705	5.41280	2030.60001	.19180	.19230	.19230	.19230	.19220	.19200	.19330	875.42000
1.397	12.846	5.38900	2031.30000	.19250	.19230	.19260	.19250	.19260	.19240	.19300	875.69000
1.394	15.003	5.41560	2031.30000	.19190	.19110	.19120	.19110	.19050	.19060	.18810	875.63000
1.395	17.160	5.44840	2030.60001	.18820	.18780	.18780	.18850	.18850	.18820	.18990	875.34000
1.395	19.330	5.45930	2030.60001	.19020	.19000	.18970	.19000	.19000	.18920	.19930	875.34000
1.398	21.470	5.47640	2032.00000	.18830	.18860	.18840	.18840	.18880	.18890	.18970	876.04000
1.399	23.586	5.47010	2032.70000	.18000	.18220	.17980	.18040	.17990	.17990	.18530	876.35000
1.397	25.688	5.51200	2033.39999	.17860	.17950	.17990	.17950	.17900	.17990	.18280	876.63000
1.399	26.722	5.51260	2032.70000	.17620	.17640	.17710	.17650	.17680	.17580	.18020	876.63000
		.00830	.00094	.00043	.00021	.00031	.00065	.00019	.00026	-.00223	.00032

RUN NO. 3254 0 RN/L 3.03 GRADIENT INTERVAL = -5.084 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF
1.556	.073	4.56680	1544.00000	.14130	.14130	.14130	.14130	.14130	.14130	.14130	656.91000
1.556	2.066	4.58280	1544.00000	.14230	.14210	.14190	.14210	.14150	.14190	.14160	656.91000
1.555	4.135	4.56150	1542.68001	.14210	.14260	.14260	.14260	.14270	.14220	.14200	656.31000
1.556	6.173	4.56670	1541.60000	.14230	.14190	.14170	.14140	.14130	.14170	.14150	656.01000
1.556	8.241	4.55480	1541.10000	.14050	.13998	.14030	.14030	.14030	.14030	.13990	656.71000
1.555	10.395	4.56330	1541.80000	.14370	.14370	.14350	.14380	.14330	.14350	.14350	656.01000
1.555	12.346	4.56830	1541.80000	.13880	.13861	.13910	.13900	.13950	.13870	.13800	656.01000
1.556	14.426	4.57500	1542.60001	.13580	.13550	.13600	.13570	.13600	.13600	.13470	656.91000
1.556	16.567	4.57740	1544.00000	.13530	.13510	.13480	.13510	.13480	.13480	.13470	656.91000
1.556	18.663	4.58160	1543.30000	.13290	.13310	.13300	.13290	.13300	.13290	.13310	656.61000
1.556	20.692	4.58980	1543.30000	.12940	.12930	.12920	.12940	.12940	.12910	.12920	656.61000
1.556	22.777	4.59530	1544.00000	.12500	.12520	.12490	.12490	.12530	.12570	.12520	656.91000
1.556	24.863	4.59960	1543.30000	.11820	.11820	.11790	.11770	.11820	.11780	.11820	656.61000
1.556	26.863	4.60200	1542.60001	.11720	.11730	.11720	.11730	.11700	.11740	.11730	656.31000
		-.00135	-.34572	.00032	.00032	.00032	.00012	.00035	.00022	.00017	-.14860

(BETRI7) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 3264 0 RUN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q/PSF1
1.750	-0.838	4.74660	1651.50000	.09890	.09910	.09890	.09920	.09890	.09890	.09840	684.65000
1.750	1.946	4.75010	1653.60001	.09890	.09870	.09870	.09870	.09850	.09870	.09820	685.71000
1.750	3.984	4.75090	1652.20000	.09860	.09870	.09890	.09900	.09900	.09880	.09870	685.14000
1.750	6.031	4.74960	1649.59399	.09880	.09870	.09870	.09910	.09870	.09890	.09880	684.00000
1.750	8.095	4.74920	1647.83333	.09860	.09870	.09870	.09910	.09870	.09870	.09860	683.43000
1.750	10.151	4.74790	1648.60001	.09910	.09870	.09870	.09910	.09870	.09870	.09860	683.71000
1.750	12.191	4.75020	1648.60001	.09910	.09870	.09870	.09910	.09870	.09870	.09860	683.71000
1.750	14.267	4.75770	1649.39999	.09910	.09870	.09870	.09910	.09870	.09870	.09860	684.00000
1.750	16.405	4.76170	1650.80000	.09910	.09870	.09870	.09910	.09870	.09870	.09860	684.57000
1.750	20.520	4.77240	1652.20000	.09910	.09870	.09870	.09910	.09870	.09870	.09860	685.14000
1.750	28.595	4.77730	1651.50000	.09910	.09870	.09870	.09910	.09870	.09870	.09860	684.85000
1.750	24.684	4.78130	1652.20000	.09910	.09870	.09870	.09910	.09870	.09870	.09860	685.14000
1.750	25.673	4.78400	1650.10001	.09910	.09870	.09870	.09910	.09870	.09870	.09860	684.28000
1.750		.00187	.17518	.00007	.00002	.00000	.00005	.00003	.00002	.00008	.07052

RUN NO. 3354 0 RUN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q/PSF1
1.997	0.010	4.41310	1816.30000	.05900	.05850	.05890	.05890	.05850	.05900	.05850	651.15000
1.997	2.040	4.41120	1815.60001	.05890	.05850	.05890	.05700	.05690	.05710	.05710	650.90000
1.997	6.158	4.41040	1816.30000	.05800	.05800	.05800	.05750	.05750	.05750	.05730	651.15000
1.997	8.232	4.41140	1815.30000	.05790	.05790	.05790	.05710	.05710	.05710	.05710	651.15000
1.997	10.292	4.41040	1815.60001	.05800	.05800	.05790	.05840	.05840	.05860	.05860	650.90000
1.997	12.323	4.41430	1815.60001	.05800	.05800	.05800	.05840	.05840	.05860	.05860	650.90000
1.997	14.339	4.41570	1816.30000	.05800	.05800	.05800	.05840	.05840	.05860	.05860	651.15000
1.997	16.537	4.41790	1816.30000	.05800	.05800	.05800	.05840	.05840	.05860	.05860	651.15000
1.997	20.693	4.42760	1815.60001	.05800	.05800	.05800	.05840	.05840	.05860	.05860	650.90000
1.997	23.718	4.43420	1815.60001	.05800	.05800	.05800	.05840	.05840	.05860	.05860	651.15000
1.997	24.786	4.43370	1816.30000	.05800	.05800	.05800	.05840	.05840	.05860	.05860	651.15000
1.997		.00094	.34492	.00108	.00079	.00094	.00094	.00079	.00094	.00069	.12319

TABULATED DATA - ORBIT (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

(BE7R17) (02 AUG 75)

REFERENCE DATA

SPEF = 2580.000 SO.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0006 IN. Y0
 BREF = 956.6800 IN. ZMRP = 375.0800 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRON = -7.170

RUN NO. 3454 0 RVAL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PS1
2.249	-.096	4.11650	2061.70001	.03740	.03710	.03710	.03710	.03720	.03750	.03730	632.20000
2.249	1.880	4.11426	2056.20001	.03640	.03580	.03660	.03650	.03630	.03630	.03610	633.29000
2.249	3.931	4.11250	2070.89999	.03540	.03570	.03540	.03570	.03570	.03550	.03550	635.02000
2.249	5.987	4.11170	2070.20001	.03640	.03580	.03610	.03620	.03600	.03640	.03640	634.80000
2.249	10.020	4.11160	2070.20001	.03330	.03290	.03380	.03310	.03308	.03290	.03290	634.80000
2.249	12.125	4.11300	2070.89999	.03180	.03170	.03180	.03130	.03190	.03180	.03190	635.02000
2.249	14.203	4.11280	2070.20001	.03050	.03020	.03020	.03020	.03020	.03010	.03030	634.80000
2.249	16.334	4.11570	2070.89999	.03060	.03080	.03080	.03080	.03080	.03070	.03080	635.02000
2.249	18.407	4.12000	2071.60001	.03060	.03050	.03050	.03050	.03030	.03060	.03060	634.24000
2.249	20.429	4.12580	2070.89999	.02880	.02890	.02930	.02940	.02920	.02920	.02920	635.02000
2.249	22.498	4.12560	2070.89999	.02950	.02970	.02980	.02940	.02940	.02910	.02930	635.02000
2.249	24.551	4.13110	2070.89999	.02800	.02800	.02800	.02790	.02790	.02790	.02790	635.02000
2.249	25.571	4.13380	2070.89999	.02869	.02810	.02830	.02850	.02850	.02840	.02840	635.02000
2.249	GRADIENT	-.00097	2.28759	-.00050	-.06035	-.00042	-.00035	-.00037	-.00050	-.00045	.70115

RUN NO. 428/ 0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PS1
2.499	1.106	5.118470	1471.80000	.03100	.03100	.03090	.03090	.03080	.03090	.03080	377.25000
2.499	2.137	5.15778	1473.20000	.03030	.03020	.03010	.02990	.02990	.03070	.03070	377.62000
2.499	4.180	5.13650	1472.50000	.02910	.02900	.02870	.02900	.02910	.02900	.02900	377.43000
2.499	6.215	5.11680	1472.50000	.02930	.02920	.02910	.02910	.02930	.02920	.02910	377.43000
2.499	8.280	5.10230	1473.20000	.02850	.02850	.02860	.02860	.02860	.02850	.02820	377.62000
2.499	10.293	5.09320	1473.20000	.02690	.02670	.02680	.02690	.02690	.02690	.02690	377.62000
2.499	12.350	5.08760	1473.20000	.02540	.02540	.02530	.02540	.02540	.02570	.02570	377.62000
2.499	14.386	5.08510	1473.20000	.02570	.02570	.02560	.02540	.02540	.02530	.02530	377.62000
2.499	16.431	5.08630	1473.20000	.02420	.02400	.02400	.02400	.02410	.02410	.02420	377.62000
2.499	18.469	5.09260	1473.20000	.02450	.02420	.02420	.02410	.02420	.02420	.02420	377.62000
2.499	20.508	5.10370	1473.20000	.02340	.02340	.02330	.02340	.02340	.02350	.02350	377.62000
2.499	22.558	5.11660	1473.20000	.02390	.02350	.02350	.02340	.02350	.02350	.02350	377.62000
2.499	24.603	5.13520	1473.20000	.02370	.02370	.02360	.02370	.02380	.02370	.02380	377.62000
2.499	25.622	5.14500	1473.20000	.02410	.02390	.02390	.02390	.02380	.02380	.02380	377.62000
2.499	GRADIENT	-.01183	1.7127	-.00047	-.00049	-.00054	-.00047	-.00044	-.00047	-.00039	.34404

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PAGE 429

(BETR17) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILERON = .000 BOFLAP = -7.170

RUN NO. 421/ 0 RWL = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	04PSF1
3.040	.103	5.34720	1971.20000	.01380	.01370	.01360	.01360	.01370	.01350	.01360	327.08000
3.040	2.135	5.32450	1971.20000	.01310	.01310	.01300	.01310	.01320	.01310	.01310	327.08000
3.040	4.159	5.29880	1971.20000	.01310	.01300	.01280	.01270	.01280	.01270	.01280	327.08000
3.040	6.167	5.28020	1971.89399	.01280	.01260	.01260	.01270	.01260	.01260	.01270	327.20000
3.040	8.229	5.26440	1971.20000	.01240	.01230	.01230	.01220	.01210	.01210	.01210	327.08000
3.040	10.258	5.25670	1971.20000	.01150	.01140	.01130	.01130	.01140	.01150	.01120	327.08000
3.040	12.298	5.24790	1971.20000	.01150	.01140	.01140	.01130	.01120	.01120	.01120	327.08000
3.040	14.329	5.24580	1971.20000	.01090	.01080	.01070	.01070	.01070	.01070	.01070	327.08000
3.040	16.362	5.25010	1971.20000	.01080	.01080	.01070	.01070	.01060	.01060	.01060	327.08000
3.040	18.393	5.25370	1971.20000	.01030	.01020	.00990	.00990	.01010	.01010	.01010	327.08000
3.040	20.423	5.26360	1971.20000	.00990	.00980	.00980	.00980	.00990	.00990	.00990	327.08000
3.040	22.455	5.27650	1971.20000	.01010	.01010	.01010	.01020	.01020	.01010	.01010	327.08000
3.040	24.498	5.29440	1971.20000	.01010	.00990	.00990	.00990	.00990	.00990	.00990	327.08000
3.040	25.517	5.30360	1971.20000	.01020	.01000	.00990	.00930	.00930	.01000	.01000	327.08000
GRADIENT				-.00017	-.00017	-.00020	-.00022	-.00022	-.00022	-.00020	-.00000

RUN NO. 430/ 0

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	04PSF1
3.499	-.182	5.47470	2682.00000	.00770	.00760	.00760	.00760	.00770	.00770	.00770	301.84000
3.499	1.836	5.45060	2684.10001	.00740	.00740	.00730	.00730	.00730	.00730	.00730	302.08000
3.499	3.868	5.42680	2682.00000	.00720	.00710	.00700	.00690	.00700	.00700	.00710	301.84000
3.499	5.892	5.40760	2682.70001	.00710	.00700	.00700	.00700	.00700	.00690	.00680	301.52000
3.499	7.919	5.39100	2684.10001	.00670	.00650	.00650	.00640	.00650	.00650	.00670	302.08000
3.499	11.936	5.37660	2683.39999	.00620	.00620	.00620	.00620	.00620	.00620	.00620	302.08000
3.499	14.004	5.37600	2683.39999	.00610	.00610	.00610	.00610	.00610	.00610	.00610	302.08000
3.499	16.042	5.37580	2682.70001	.00590	.00570	.00570	.00560	.00560	.00560	.00560	301.99000
3.499	18.068	5.38310	2683.39999	.00570	.00550	.00550	.00540	.00540	.00540	.00540	302.08000
3.499	20.102	5.39120	2682.00000	.00580	.00580	.00580	.00570	.00570	.00560	.00560	301.84000
3.499	22.139	5.40650	2683.39999	.00600	.00600	.00590	.00590	.00580	.00580	.00580	302.08000
3.499	24.165	5.42170	2681.29999	.00580	.00580	.00580	.00570	.00570	.00560	.00560	301.76000
3.499	25.182	5.43390	2684.10001	.00570	.00570	.00560	.00560	.00560	.00560	.00570	302.08000
GRADIENT				-.00012	-.00012	-.00015	-.00017	-.00017	-.00017	-.00015	-.00014

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETRM) (02 AUG 75)

REFERENCE DATA

SPEF = 2500.0000 50.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA =
ALRON =
-5.000
2.500
ELEVON =
BBFLAP =
.000
-7.170

RUN NO. 160 / 0 RWL = 4.25 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF 1
.597	.137	-4.92820	2617.60001	.75820	.75020	.74950	.74950	.75000	.74950	.73730	513.35000
.597	2.147	-4.93780	2617.60001	.74950	.74950	.74950	.75000	.74950	.74950	.74330	513.35000
.598	4.194	-4.93470	2617.60001	.74950	.74950	.74950	.74950	.75000	.74950	.74620	513.35000
.597	6.270	-4.92960	2618.29999	.74950	.74950	.74950	.74950	.74950	.74950	.74720	513.35000
.597	8.363	-4.91650	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74870	513.35000
.597	10.474	-4.90530	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.597	12.595	-4.87930	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.597	14.691	-4.87260	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.597	16.791	-4.87670	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.597	18.943	-4.90030	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.597	21.013	-4.93120	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.597	23.117	-4.89340	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.597	25.200	-4.88300	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
.598	26.236	-4.87030	2619.00000	.74950	.74950	.74950	.74950	.74950	.74950	.74950	513.35000
	GRADIENT	-0.0159	.00002	-0.0012	-0.0012	-0.0012	-0.0012	-0.0012	-0.0012	-0.0012	.14587

RUN NO. 161 / 0

RWL = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF 1
.920	.110	-4.95780	2106.20001	.52410	.52370	.52370	.52360	.52470	.52390	.74030	705.15000
.901	2.177	-4.95670	2106.20001	.52440	.52390	.52370	.52360	.52450	.52370	.64690	705.15000
.891	4.258	-4.97330	2107.00000	.52440	.52390	.52370	.52360	.52450	.52370	.59420	707.47000
.893	6.358	-4.95170	2106.20001	.52440	.52390	.52370	.52360	.52450	.52370	.56600	705.15000
.893	8.495	-4.94850	2107.00000	.52440	.52390	.52370	.52360	.52450	.52370	.54920	705.15000
.893	10.612	-4.92700	2107.00000	.52440	.52390	.52370	.52360	.52450	.52370	.53850	705.15000
.863	12.739	-4.92700	2107.00000	.52440	.52390	.52370	.52360	.52450	.52370	.53030	705.15000
.900	14.893	-4.93200	2125.29999	.52440	.52390	.52370	.52360	.52450	.52370	.51280	712.78000
.901	17.025	-4.94330	2127.50000	.52440	.52390	.52370	.52360	.52450	.52370	.50840	714.40000
.893	19.172	-4.95970	2127.50000	.52440	.52390	.52370	.52360	.52450	.52370	.50200	712.78000
.900	21.310	-4.96790	2128.20001	.52440	.52390	.52370	.52360	.52450	.52370	.49450	713.21000
.900	23.425	-4.95930	2125.29999	.52440	.52390	.52370	.52360	.52450	.52370	.48140	712.53600
.902	25.498	-4.91530	2125.29999	.52440	.52390	.52370	.52360	.52450	.52370	.46510	714.19000
.899	26.506	-4.91220	2124.60001	.52440	.52390	.52370	.52360	.52450	.52370	.45490	711.61000
	GRADIENT	-0.0133	.19306	-0.0007	-0.0009	-0.0012	-0.0012	-0.0012	-0.0012	-0.0012	.31815

(BETR18) (02 AUG 75)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .009
 ALPHA = 2.500 BDFLAP = -7.170

TABULATED DATA - OAT61 (ARC 11-97-87-09#)

ARC 11-97-87-09# OAT61 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0080 IN. Y0
 BPLF = 936.6800 IN. ZMRP = 375.0080 IN. Z0
 SCALE = .0300

RUN NO. 170# 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00# 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
1.198	.102	-4.97120	1988.80000	.28150	.28110	.28010	.28060	.28000	.27980	.27710	826.23000
1.200	2.178	-4.96860	1988.80000	.28080	.28160	.28120	.28100	.28030	.27990	.27860	826.52000
1.199	4.278	-4.96650	1988.80000	.28120	.28050	.28060	.28190	.28110	.28160	.27970	826.42000
1.196	8.545	-4.94420	1989.60001	.27770	.27840	.27860	.27730	.27730	.27820	.27890	825.81000
1.195	10.695	-4.93260	1988.80000	.27440	.27410	.27470	.27330	.27330	.27330	.27650	825.24000
1.195	12.865	-4.94076	1991.00000	.27280	.27370	.27330	.27310	.27310	.27370	.27520	826.37000
1.197	15.028	-4.95710	1990.30000	.26910	.26950	.27010	.26610	.26610	.26870	.27280	826.39000
1.196	17.188	-4.95200	1989.50001	.26680	.26710	.26650	.26610	.26510	.26670	.27000	825.42000
1.195	21.509	-4.95800	1992.38999	.26020	.25920	.25950	.26810	.26050	.26310	.25570	826.92000
1.196	GRADIENT	.00113	.00000	-.00007	-.00007	.00012	.00031	.00025	.00043	.00062	.04522

RUN NO. 171# 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00# 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF1
1.404	.078	-4.97920	2039.80000	.18750	.18710	.18700	.18730	.18720	.18730	.23220	879.49000
1.422	4.234	-4.97250	2038.39999	.19010	.19000	.18980	.18990	.18980	.18930	.21370	878.84000
1.400	8.490	-4.93810	2039.80000	.19040	.19030	.19060	.19130	.19110	.19040	.20430	879.42000
1.399	10.633	-4.94760	2039.80000	.18950	.19030	.18980	.18970	.18940	.18970	.19770	879.40000
1.408	12.779	-4.95450	2039.80000	.18630	.18650	.18670	.18670	.18660	.18650	.19650	879.42000
1.398	14.946	-4.97770	2040.50000	.18360	.18340	.18340	.18380	.18380	.18400	.18690	879.69000
1.397	17.102	-4.95930	2041.20000	.18280	.18220	.18240	.18210	.18250	.18210	.18630	879.97000
1.391	21.445	-4.97150	2040.50000	.18240	.18130	.18180	.18230	.18120	.18130	.18430	879.51000
1.391	GRADIENT	.00161	-.33691	.00063	.00070	.00067	.00060	.00063	.00048	-.08445	-.15642

(BETR19) (02 AUG 75)

TABULATED DATA - OAL6L (ARC 11-97-87-094)

ARC 11-97-87-094 OAL6L ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0080 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA =
 AIRLON =
 -2.000 ELEVON = .000
 2.500 BEFLAP = -7.170

RUN NO. 1594 0 RV/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.597	.104	-1.87680	2616.89999	.75050	.75130	.75020	.75040	.75090	.75400	.73930	512.76000
.597	2.124	-1.86230	2615.89999	.74960	.75020	.75000	.75020	.75100	.75000	.74570	512.76000
.597	4.172	-1.84458	2616.89999	.75050	.75159	.75110	.75090	.75110	.75110	.74700	512.76000
.596	6.250	-1.83580	2616.89999	.75170	.75170	.75110	.75160	.75140	.75130	.74800	512.16000
.595	8.337	-1.83540	2616.89999	.75150	.75120	.75100	.75100	.75050	.75130	.75020	512.16000
.596	10.446	-1.83580	2616.89999	.75120	.75040	.75120	.75070	.75050	.75040	.75040	512.16000
.597	12.572	-1.83620	2616.89999	.75080	.75050	.75140	.75060	.75060	.75020	.75070	512.16000
.597	14.669	-1.79560	2618.29999	.74830	.74770	.74720	.74810	.74850	.74860	.74820	512.90000
.597	16.803	-1.85530	2619.00000	.74460	.74560	.74570	.74440	.74450	.74460	.74460	513.85000
.597	18.935	-1.85580	2619.00000	.74190	.74210	.73650	.73610	.73610	.73610	.73610	513.85000
.597	21.050	-1.84870	2619.00000	.73860	.73870	.73650	.73610	.73610	.73610	.73610	513.85000
.597	23.139	-1.83690	2619.70001	.73270	.73270	.73270	.73160	.73230	.73230	.73230	513.85000
.598	25.211	-1.81190	2619.70001	.72780	.72770	.72780	.72780	.72780	.72780	.72780	513.85000
.597	26.209	-1.73700	2619.00000	.72160	.72170	.72280	.72110	.72250	.72250	.72250	513.85000
	GRADIENT	.00793	-.00002	.00000	.00065	.00022	.00012	.00005	.00003	.00189	-.00000

RUN NO. 1627 0

RV/L = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.900	.078	-1.87570	2124.50001	.52470	.52530	.52530	.52510	.52490	.52370	.46480	712.04000
.902	2.149	-1.87200	2126.79999	.52600	.52520	.52570	.52570	.52630	.52580	.50190	714.33000
.903	4.235	-1.86820	2128.20001	.52530	.52390	.52560	.52510	.52270	.52420	.50170	715.70000
.901	6.349	-1.85150	2128.20001	.52590	.52750	.52760	.52760	.52800	.52670	.51830	714.05000
.902	8.464	-1.85530	2126.79999	.52120	.52360	.52360	.52510	.52510	.52470	.52020	711.33000
.899	10.602	-1.84370	2126.79999	.52180	.52220	.52220	.52350	.52430	.52370	.52150	712.22000
.903	12.742	-1.84190	2127.50000	.51380	.51360	.51360	.51530	.51600	.51440	.51260	715.23000
.900	14.860	-1.85010	2127.50000	.50630	.50400	.50620	.50710	.50800	.50710	.51340	713.57000
.900	17.034	-1.83140	2126.79999	.50220	.50340	.50440	.50140	.50180	.50180	.50770	713.06000
.903	19.200	-1.89710	2127.50000	.49110	.49270	.49440	.49300	.49220	.49310	.50050	712.28000
.899	21.341	-1.88100	2126.79999	.47830	.47720	.47810	.47810	.47870	.47660	.46990	711.79000
.899	23.442	-1.85750	2127.50000	.45890	.46150	.46070	.45850	.46010	.45930	.47770	713.57000
.900	25.490	-1.84580	2127.50000	.44270	.44140	.44030	.44030	.43780	.43630	.46130	712.71000
.899	26.505	-1.83300	2124.60001	.43940	.43840	.43840	.43630	.43940	.43010	.45510	712.47000
.900	GRADIENT	.00277	-.86587	.00014	-.00034	.00007	-.00030	-.00053	.00012	.00662	-.86027

(BETW/194 1 02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEMEN = .000
ANLCN = 2.500 EDPLAR = -7.770

TABULATED DATA - OM16L (ARC 11-97-87-094)

ARC 11-97-87-094 OM16L ORBITER

REFERENCE DATA

SPEF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BPEF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 169/ 0 RNL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	01PSF1
1.200	.080	-1.88630	1532.39999	.28280	.28208	.28110	.28180	.28140	.28170	.27980	828.10000
1.199	4.248	-1.87220	1993.30000	.28190	.28170	.28190	.28160	.28100	.28050	.27870	828.99000
1.197	8.535	-1.84220	1991.70000	.27910	.27900	.27910	.27850	.27950	.27890	.27800	826.94000
1.196	10.700	-1.83130	1991.70000	.27680	.27710	.27710	.27620	.27750	.27710	.27630	827.35000
1.195	12.850	-1.83700	1991.70000	.27570	.27460	.27480	.27540	.27540	.27540	.27420	826.74000
1.194	15.004	-1.87320	1993.60001	.26960	.26780	.26960	.26970	.26910	.26950	.27410	826.21000
1.193	17.219	-1.91640	1990.30000	.26540	.26500	.26550	.26570	.26430	.26520	.27350	826.19000
1.192	21.550	-1.87850	1992.39999	.26130	.26090	.25970	.25970	.25920	.25950	.26550	827.71000
1.191	GRADIENT	.00338	-50380	-.00022	-.00007	-.00035	-.00005	-.00010	-.00029	.00070	-25570

RUN NO. 172/ 0 RNL = 4.19 GRADIENT INTERVAL = 5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	01PSF1
1.401	.049	-1.88950	2039.10001	.19240	.19230	.19250	.19190	.19180	.19220	.18930	879.14000
1.397	4.264	-1.89060	2039.80000	.19200	.19240	.19290	.19230	.19280	.19210	.19060	879.45000
1.396	8.569	-1.87690	2039.10001	.19290	.19350	.19310	.19270	.19300	.19260	.19150	879.06000
1.395	10.750	-1.85890	2039.80000	.19110	.19140	.19080	.19080	.19130	.19110	.19160	879.35000
1.394	12.878	-1.81320	2039.80000	.18830	.18780	.18720	.18720	.18650	.18650	.18940	879.37000
1.393	14.971	-1.84360	2040.50000	.18650	.18640	.18660	.18680	.18590	.18590	.18810	879.69000
1.392	17.101	-1.82320	2039.10001	.18380	.18410	.18440	.18380	.18350	.18340	.18620	879.07000
1.391	21.408	-1.84740	2041.20000	.18380	.18410	.18390	.18390	.18330	.18450	.18500	879.95000
1.390	GRADIENT	.00211	.16610	-.00005	.00002	.00009	.00009	.00024	-.00002	.00031	-07356

18CT220 (22 AUG 78)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
AIRLON = -7.170
SCALE = 2.500

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 974.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 158/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.597	.094	.16180	2616.20001	.75062	.75000	.75120	.75320	.75090	.75100	.74100	512.75000
.597	2.118	.20970	2615.20001	.75060	.75080	.75100	.75130	.75100	.75130	.74100	512.75000
.597	4.175	.20940	2616.89399	.75110	.75070	.75090	.75150	.75100	.75150	.74100	513.34000
.596	6.242	.21410	2616.89399	.75110	.75050	.75150	.75090	.75150	.75090	.74100	512.18000
.597	8.336	.22150	2617.60001	.75150	.75140	.75150	.75110	.75130	.75130	.75090	512.75000
.597	10.433	.21930	2616.89399	.75110	.75210	.75220	.75190	.75130	.75230	.75090	512.75000
.596	12.526	.21770	2617.60001	.75110	.75130	.75110	.75090	.75090	.75120	.75120	512.18000
.596	14.613	.21770	2617.60001	.75080	.74940	.75030	.74920	.74920	.74920	.74920	512.18000
.597	16.768	.23290	2618.28939	.74950	.74440	.74390	.74390	.74390	.74390	.74390	513.34000
.597	18.893	.22650	2619.00000	.74300	.73930	.73930	.73930	.73930	.73930	.73930	512.80000
.597	21.001	.21520	2619.00000	.73520	.73910	.73590	.73590	.73590	.73590	.73590	514.56000
.597	23.094	.21080	2619.00000	.72940	.72950	.72920	.72920	.72920	.72920	.72920	514.56000
.599	25.171	.21520	2619.00000	.72350	.72410	.72310	.72290	.72290	.72290	.72290	514.56000
.597	26.167	.20850	2619.00000	.00012	.00017	.00017	.00032	.00032	.00032	.00174	514.56000
		.01163	.17197								

RUN NO. 163/ 0 RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.900	.056	.17790	2125.29999	.52370	.52400	.52390	.52180	.52180	.52180	.48320	712.50000
.901	2.145	.20950	2125.29999	.52500	.52550	.52520	.52540	.52540	.52540	.50120	713.37000
.900	4.245	.20310	2126.10001	.52730	.52650	.52690	.52570	.52570	.52570	.51290	712.50000
.900	6.352	.21270	2126.10001	.52890	.52940	.52940	.53010	.53010	.53010	.51290	713.37000
.900	8.471	.22330	2126.10001	.52940	.52640	.52670	.52730	.52730	.52730	.50120	712.50000
.900	10.596	.21270	2126.79999	.52940	.52390	.52390	.52390	.52390	.52390	.50120	713.37000
.900	12.727	.21760	2126.10001	.52000	.51910	.51890	.51770	.51770	.51770	.51290	712.50000
.900	14.851	.22610	2126.10001	.51210	.51200	.51190	.51120	.51120	.51120	.51290	713.37000
.900	16.976	.22730	2126.10001	.50590	.50510	.50490	.50370	.50370	.50370	.51290	711.79000
.900	19.100	.23360	2126.79999	.49350	.49250	.49250	.49180	.49180	.49180	.49180	713.37000
.901	21.223	.20310	2127.50000	.47590	.47620	.47590	.47540	.47540	.47540	.47540	712.50000
.900	23.341	.20310	2126.79999	.46300	.46120	.46050	.45910	.45910	.45910	.45320	712.50000
.900	25.460	.19730	2126.79999	.45060	.44720	.44410	.44410	.44410	.44410	.45320	713.37000
.901	27.583	.21230	2126.79999	.43740	.43690	.43650	.43650	.43650	.43650	.45320	713.37000
		.01008	.19173				.00057	.00110	.00127	.00710	

CRACIENT

(BETR20) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .080
ATLON = 2.506 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER

REFERENCE DATA

REF = 2690.0000 SQ. FT. XN-XP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 168/ 0 RM/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.200	.044	.20020	1991.00000	.28340	.28370	.28430	.28500	.28420	.28430	.28060	827.55000
1.199	4.283	.21160	1983.60001	.28390	.28410	.28370	.28400	.28460	.28490	.28310	826.80000
1.198	6.385	.21680	1990.30000	.28440	.28420	.28390	.28400	.28390	.28350	.28340	826.59000
1.195	8.547	.22870	1992.39999	.28190	.28110	.28130	.28190	.28200	.28140	.28230	826.72000
1.194	10.714	.23180	1991.00000	.28090	.28160	.28090	.28080	.27970	.28000	.28180	825.77000
1.198	12.887	.21620	1991.70000	.27710	.27850	.27600	.27730	.27590	.27600	.27980	827.14000
1.198	15.026	.23170	1991.00000	.26900	.26940	.26870	.26890	.26880	.26910	.27310	826.96000
1.197	17.194	.22490	1991.00000	.26400	.26270	.26240	.26240	.26230	.26260	.26920	826.76000
1.196	21.495	.21840	1994.00000	.25880	.25910	.25810	.25760	.25710	.25790	.26470	826.44000
1.199	25.729	.20580	1995.20000	.25020	.24900	.24820	.24830	.24940	.24920	.25800	829.01000
	GR-D-ENT	.00270	-.33186	.00012	.00003	-.00019	-.00024	.00009	.00014	.00059	-.17778

RUN NO. 173/ 0 RM/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.403	.034	.20070	2070.20001	.19540	.19520	.19500	.19540	.19530	.19520	.18950	892.58000
1.402	4.266	.17440	2069.50000	.19730	.19720	.19730	.19700	.19670	.19730	.19290	892.26000
1.400	6.416	.19230	2070.20001	.19620	.19650	.19580	.19580	.19580	.19630	.19420	892.54000
1.398	8.585	.17290	2070.20001	.19470	.19490	.19520	.19480	.19490	.19460	.19430	892.49000
1.398	10.754	.17540	2070.20001	.19400	.19370	.19390	.19350	.19430	.19390	.19400	892.49000
1.398	12.927	.17820	2070.89999	.19190	.19160	.19180	.19100	.19150	.19100	.19300	892.80000
1.399	15.083	.16060	2070.89999	.18760	.18800	.18780	.18730	.18770	.18810	.19050	892.82000
1.398	17.254	.17960	2070.20001	.18580	.18580	.18520	.18560	.18600	.18550	.18840	892.49000
1.393	21.521	.20640	2070.20001	.18540	.18570	.18560	.18590	.18580	.18630	.18760	892.38000
1.384	23.777	.21760	2070.89999	.18150	.18070	.18170	.18250	.18150	.18120	.18490	892.40000
	GRADIENT	-.00621	-.18543	.00045	.00047	.00054	.00038	.00033	.00050	.00080	-.07562

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STATISTICAL DATA - 0A161 (ARC 11-97-67-094)

ABC 11-97-87-094 OALB ORBITER

REFERENCE DATA.

SREF	=	2690.0000	SQ.FT.	XMRP	=	1075.6900	IN.	XO
LREF	=	474.8000	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6900	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0300						

RUN: NO. 157 / 0 RM/L. = 4.24 GRADIENT INTERVAL = -5.00 / 3.00

[illegible]

RUN NO: 1644 0 RIN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1P5F
.900	.008	2.38440	2125.29999	.52400	.52500	.52450	.52410	.52350	.52370	.49310	712.53000
.900	2.147	2.30800	2126.10001	.52590	.52520	.52460	.52800	.52610	.52520	.50130	713.43000
.900	4.257	2.31600	2126.10001	.52590	.52650	.52430	.52610	.52660	.52520	.51110	713.02000
.899	6.371	2.32650	2126.10001	.52740	.52540	.52590	.52650	.52870	.52730	.51740	712.16000
.900	8.500	2.32650	2126.10001	.52610	.52670	.52670	.52700	.52710	.52650	.52650	712.59000
.900	10.833	2.32890	2126.10001	.52080	.52130	.52370	.52370	.52200	.52290	.52240	713.02000
.899	12.793	2.31530	2126.10001	.51610	.52060	.51910	.51720	.51570	.51390	.51930	712.16000
.901	14.954	2.34110	2126.79999	.50660	.50790	.50960	.51180	.51080	.50910	.54410	713.91000
.899	17.132	2.34810	2126.10001	.50520	.50340	.50160	.50120	.50310	.50310	.50910	712.16000
.900	19.275	2.33850	2127.79999	.49050	.49070	.49050	.49160	.49260	.48990	.50080	712.65000
.900	21.391	2.31850	2127.50000	.47410	.49070	.47780	.47760	.49050	.47760	.49130	713.98000
.900	23.443	2.31920	2127.50000	.45590	.45770	.45810	.45730	.46070	.45540	.47450	713.15000
.900	25.503	2.33210	2127.50000	.44780	.44820	.4470	.44210	.44240	.44450	.46220	713.57000
.900	26.516	2.35690	2126.79999	.43760	.43930	.43940	.43720	.44000	.44040	.45340	713.08000
GRADIENT		.00752	.19022	.00045	.00029	-.00005	.00048	.00074	.00036	.00557	.11616

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETW21) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = 2.500 BOFLAP = -7.170

RUN NO. 167/ 0 RVL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF
1.199	0.044	2.28870	1993.10001	.28240	.28210	.28200	.28160	.28070	.28130	.28060	828.28000
1.200	4.270	2.29020	1988.10001	.28240	.28270	.28210	.28380	.28070	.28240	.28320	826.44000
1.198	8.574	2.31460	1991.00000	.28000	.28040	.27950	.28130	.28110	.28060	.28260	826.98000
1.197	10.735	2.32230	1991.70000	.27770	.27750	.27680	.27680	.27610	.27720	.28070	826.94000
1.195	12.917	2.31060	1991.00000	.27690	.27340	.27030	.27010	.26960	.27580	.27900	826.17000
1.193	15.090	2.34800	1991.00000	.26850	.27040	.26410	.26470	.26550	.26890	.27520	827.16000
1.192	17.307	2.34940	1991.70000	.26440	.26310	.26100	.26100	.26330	.26570	.27160	826.94000
1.197	21.582	2.32530	1994.50000	.25940	.25810	.26080	.26100	.26330	.26800	.25770	829.03000
1.200	GRADIENT	.00035	-1.18315	-.00007	.00014	.00002	.00052	.00033	.00026	.00014	-4.3540

RUN NO. 174/ 0 RVL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF
1.402	.065	2.32070	2070.20001	.19270	.19240	.19230	.19200	.19240	.19270	.19020	892.57000
1.401	4.277	2.31840	2070.89999	.19300	.19350	.19300	.19350	.19380	.19400	.19190	892.86000
1.398	8.574	2.25500	2068.79999	.19590	.19620	.19580	.19610	.19590	.19620	.19090	891.89000
1.398	10.709	2.24200	2058.50000	.19190	.19210	.19180	.19200	.19230	.19290	.19130	892.18000
1.397	12.914	2.23640	2068.79999	.18890	.18880	.18860	.18890	.18910	.18910	.19130	891.85000
1.400	14.957	2.29730	2069.50000	.18920	.18890	.18890	.18900	.18900	.18880	.19010	892.23000
1.399	17.138	2.33230	2069.50000	.18610	.18560	.18600	.18590	.18610	.18600	.18940	892.21000
1.397	21.449	2.31790	2070.89999	.18530	.18500	.18530	.18540	.18560	.18500	.18730	892.77000
	GRADIENT	-.00065	.15519	.00026	.00028	.00038	.00033	.00033	.00031	.00040	.06885

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TABULATED DATA - 04164 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

(BETRE22) (02 AUG 76)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8080 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0380

PARAMETRIC DATA

BETA = .5.080 ELEVON = .000
 AIRLON = 2.586 BDFLAP = -7.176

RUN NO. 156/ 0' RWL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.597	.110	5.35880	2618.29999	.74970	.74980	.74980	.74990	.74970	.74980	.78750	512.78800
.596	2.143	5.37790	2617.60001	.74980	.75040	.75010	.75020	.75020	.75020	.77130	512.19800
.596	4.210	5.38340	2616.89999	.75020	.74990	.75050	.75010	.75010	.75020	.76220	511.80000
.596	6.296	5.38990	2617.60001	.75040	.75020	.75030	.75030	.75070	.75040	.75660	512.19000
.595	8.397	5.39440	2617.60001	.75000	.75050	.75050	.75030	.75110	.75040	.75360	511.03800
.595	10.511	5.39890	2618.29999	.75090	.75120	.75080	.75180	.75090	.75050	.75270	511.04000
.595	12.639	5.38840	2619.00000	.74980	.74860	.74870	.75070	.74980	.75010	.75130	511.64000
.595	14.755	5.38100	2618.29999	.74990	.74830	.74860	.75068	.74990	.74940	.75000	510.46000
.595	16.860	5.37860	2618.29999	.74930	.74430	.74380	.74450	.74570	.74490	.74720	511.04000
.597	18.977	5.38990	2618.29999	.74420	.74430	.74380	.74350	.74210	.74200	.74400	512.79000
.596	21.076	5.38630	2618.29999	.74210	.74260	.73860	.73860	.73860	.73860	.74130	513.38000
.597	23.166	5.39610	2619.00000	.73860	.73610	.73610	.73670	.73610	.73500	.73770	512.80000
.597	25.221	5.41450	2619.00000	.73370	.72510	.72490	.72470	.72250	.72310	.73110	513.38000
.597	26.176	5.39360	2619.00000	.72490	.72510	.72490	.72470	.72250	.72310	.73110	513.38000
GRADIENT		.00575	-34142	.00012	.00002	.00046	.00029	.00039	.00010	.00617	-29320

RUN NO. 165/ 0

RWL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.899	.069	5.38660	2125.29999	.52320	.52310	.52450	.52300	.52250	.52100	.48250	712.10000
.900	2.160	5.40200	2127.50000	.52160	.52160	.52310	.52310	.52310	.52100	.50720	713.57000
.900	4.271	5.41240	2126.79999	.52410	.52400	.52370	.52360	.52360	.52410	.51160	713.08000
.902	6.399	5.41300	2126.79999	.52500	.52500	.52350	.52360	.52360	.52610	.51660	714.33000
.901	8.518	5.41510	2126.79999	.52270	.52300	.52400	.52460	.52560	.52460	.52000	713.91000
.899	10.659	5.40990	2127.50000	.52320	.52360	.52280	.52000	.52070	.52120	.52020	712.71000
.901	12.795	5.41050	2126.79999	.51310	.51260	.51440	.51420	.51680	.51780	.51680	713.91000
.901	14.946	5.43020	2128.20001	.50940	.50940	.50440	.50640	.50830	.50860	.51330	714.45000
.900	17.076	5.46150	2128.20001	.49870	.49730	.50200	.50070	.50300	.50340	.50880	712.34000
.899	19.234	5.46150	2128.20001	.49410	.49410	.49470	.49430	.49710	.49850	.50570	713.64000
.899	21.357	5.46930	2126.79999	.47900	.48170	.47990	.48100	.48300	.48220	.49500	711.79000
.900	23.433	5.45320	2126.79999	.46890	.46460	.46270	.46190	.46190	.45910	.47930	713.08000
.901	25.479	5.45430	2126.79999	.46040	.45370	.45180	.45340	.45250	.45410	.46710	713.50000
.901	26.493	5.46760	2124.60001	.44650	.44620	.44590	.44660	.44580	.44680	.45900	712.89000
GRADIENT		.00614	39684	.00022	.00022	.00017	.00079	.00093	.00074	.00660	23245

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER

(02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = 2.500 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 1664 0 RWL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF
1.200	.074	5.40040	1990.30000	.28080	.28140	.28080	.28090	.28030	.28080	.28080	827.37000
1.198	4.297	5.42110	1995.00000	.28310	.28280	.28310	.28390	.28390	.28348	.28348	824.92000
1.195	8.598	5.41080	1995.89999	.27728	.27790	.27650	.27650	.27510	.27480	.27480	829.19000
1.193	10.757	5.39560	1990.30000	.27600	.27650	.27600	.27510	.27310	.27310	.27310	826.78000
1.190	12.921	5.41088	1990.30000	.27340	.27340	.27300	.27310	.27310	.27380	.27380	825.79000
1.197	15.083	5.42650	1993.80000	.27370	.27390	.27160	.27340	.27030	.27390	.27390	827.87000
1.197	17.241	5.45790	1990.30000	.26870	.26880	.26890	.26880	.26100	.26860	.26860	826.39000
1.194	21.551	5.46620	1995.20000	.26330	.26360	.26240	.26200	.26100	.26220	.26220	827.63000
	GRADIENT	.00490	-1.01820	.00034	.00033	.00054	.00071	.00085	.00062	.00062	-590.14

RUN NO. 1754 0 RWL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF
1.399	.083	5.43190	2068.10001	.19050	.19080	.19040	.19020	.19070	.19070	.19040	891.59000
1.398	4.292	5.42220	2068.10001	.19150	.19130	.19120	.19140	.19160	.19170	.19100	891.61000
1.396	8.555	5.38160	2068.10001	.19070	.19110	.19080	.19040	.19020	.19050	.19040	891.58000
1.393	10.681	5.34660	2068.79999	.19000	.19010	.18980	.19010	.18990	.19000	.19000	891.89000
1.397	12.806	5.40500	2068.79999	.18900	.18950	.18900	.18860	.18950	.18900	.18970	891.85000
1.397	14.957	5.41740	2068.79999	.18700	.18740	.18740	.18630	.18650	.18660	.18660	891.87000
1.395	17.123	5.42500	2068.10001	.18760	.18740	.18700	.18700	.18700	.18700	.18720	891.54000
1.397	21.438	5.44700	2070.89999	.18690	.18610	.18570	.18570	.18630	.18460	.18720	892.78000
	GRADIENT	.00221	.00000	.00021	.00012	.00019	.00029	.00026	.00024	.00014	.00476

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(BEE7R23) (02 AUG 76)

TABLE A-70

ARC 11-97-87-093 OASIS ORBITER.

REFERENCE DATA

SREF	=	2690.0000	SO.FT.	.	=	1076.6800	IN.	XO
LREF	=	474.8000	IN.	.	=	.0000	IN.	YO
BREF	=	956.6800	IN.	.	=	375.0000	IN.	ZO
SCALE	=	-J300.						

ETA = -5.000 ELEVON = .000
ALFON = 5.050 BDFLAP = -7.170

PARAMETRIC DATA:

MACH	ALPHA	BETA	PT	RUN NO.	271/ 01	RV/L =	4.26	GRADIENT INTERVAL =	-5.00'	5.00	PT5/PT	PT6/PT	PT7/PT	Q1PSF 1
5.87	.144	-4.92350	2631.00000			.75130	.75130	.75140		.75070	.75150	.75120	.56120	515.35000
5.96	4.207	-4.92540	2629.60001			.75060	.75060	.75130		.75100	.75140	.68310	.514.16000	
5.95	8.370	-4.91020	2629.60001			.75150	.75260	.75180		.75250	.75090	.71590	.513.00000	
5.95		-4.89920	2630.29999			.75190	.75140	.75160		.75170	.75200	.73020	.514.17000	
5.96	10.478	-4.87110	2630.29999			.75090	.75060	.75050		.75100	.75070	.73020	.514.75000	
5.96	12.589	-4.86391	2630.29998			.74830	.74880	.74770		.74830	.74880	.73720	.513.01000	
5.97	14.582	-4.85391	2630.29998			.74650	.74630	.74610		.74590	.74610	.74130	.513.59000	
5.98	16.786	-4.84639	2630.29998			.74060	.74120	.74100		.74080	.74080	.74030	.511.59000	
5.98	21.028	-4.89880	2631.00000			.74060	.74120	.74060		.74060	.74060	.74030	.511.59000	
5.99												.02016	-.29285	

MACH	ALPHA	BETA	RUN NO.	200 / 0	RV/L =	4.2	GRADIENT INTERVAL =	-5.00	5.00	P16/PT	P17/PT	Q1PS/1
900	.112	-4.94600	2107.00000	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PS/1
900	4.263	-4.95410	2107.08808		.52590	.52590	.52590	.52600	.52590	.52470	.51520	708.64000
900	6.377	-4.95360	2104.79999		.52680	.52670	.52740	.52810	.52720	.52760	.52060	708.64000
899	8.491	-4.95360	2107.78001		.52780	.52810	.52740	.52730	.52890	.52750	.52360	704.74000
901	10.819	-4.95360	2107.78001		.52410	.52370	.52300	.52340	.52400	.52410	.52350	707.12900
900	12.739	-4.93140	2104.79999		.52270	.52200	.52270	.52280	.52290	.52300	.52320	705.60000
899	14.875	-4.93160	2106.20001		.51780	.51720	.51620	.51660	.51760	.51680	.51990	705.72000
900	17.006	-4.92380	2107.00000		.51000	.50960	.50880	.50890	.50860	.50880	.51500	708.21000
899	21.388	-4.92680	2105.50000		.50420	.50400	.50380	.50490	.50530	.50870	.51140	705.23900
900	GRADIENT	-4.96370	2107.00000		.47780	.47780	.47950	.47980	.47990	.47940	.49740	706.21000
		-4.96195	.00001		.00034	.00019	.00034	.00051	.00043	.00070	.00130	.00060

[illegible]

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BE7R23) (02 AUG 76)

REFERENCE DATA

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = 5.000 BOFLAP = -7.170

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 180 0 RNAL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF1
1.103	.111	-4.94150	2019.50000	.33380	.33350	.33430	.33430	.33450	.33410	.33060	802.25000
1.102	.4.300	-4.95070	2019.50000	.33440	.33450	.33450	.33400	.33390	.33450	.33230	801.57000
1.102	8.569	-4.93290	2026.70000	.32810	.32846	.32880	.32780	.32810	.32770	.33020	802.52000
1.098	10.725	-4.91710	2020.00000	.32770	.32720	.32680	.32640	.32650	.32730	.32850	801.01000
1.098	12.874	-4.90850	2018.50000	.32840	.32810	.32890	.32770	.32680	.32760	.32820	800.47000
1.102	15.052	-4.93140	2018.50000	.32450	.32480	.32490	.32560	.32530	.32590	.32700	801.84000
1.100	17.217	-4.94280	2019.30000	.32120	.32070	.32120	.32070	.32110	.32110	.32430	801.16000
1.100	21.538	-4.95380	2045.70000	.31140	.31120	.31190	.31160	.31100	.31200	.31930	799.66000
GRADIENT		-.00220	-.19098	.00014	.00021	.00007	-.00007	-.00017	.00010	.00041	-.16232

RUN NO. 181 0 RNAL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF1
1.198	.112	-4.98250	2017.10000	.28040	.28040	.28050	.28140	.28090	.28050	.22970	837.89000
1.199	4.283	-4.98210	2017.80000	.28200	.28210	.28220	.28180	.28220	.28130	.25220	838.46000
1.201	8.561	-4.98890	2017.80000	.27600	.27730	.27780	.27700	.27730	.27690	.26270	839.04000
1.196	10.718	-4.94000	2019.30000	.27480	.27400	.27300	.27430	.27350	.27470	.26750	838.22000
1.195	12.876	-4.96880	2018.50000	.27110	.27208	.27200	.27240	.27248	.26880	.26950	837.65000
1.196	15.052	-4.94550	2019.30000	.26980	.26960	.26950	.26870	.26878	.26880	.26880	838.02000
1.196	17.214	-4.94850	2019.30000	.26430	.26330	.26370	.26230	.26200	.26160	.26580	837.82000
1.199	21.537	-4.96620	2021.39999	.26250	.26280	.26300	.26250	.26320	.26310	.26430	839.94000
GRADIENT		.00913	.16783	.00038	.00041	.00041	.00010	.00031	.00017	.00539	.13907

RUN NO. 180 0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OIPSF1
1.400	.071	-4.95010	2088.79999	.18720	.18700	.18730	.18700	.18750	.18750	.18810	891.94000
1.400	4.232	-4.98990	2057.39999	.19000	.18998	.19020	.18970	.18980	.19000	.18920	891.32000
1.395	8.495	-4.95200	2068.10001	.19320	.19350	.19330	.19310	.19240	.19260	.19050	891.54000
1.397	10.642	-4.95280	2068.79999	.19080	.19080	.19090	.19090	.19048	.19090	.19090	891.67000
1.397	12.792	-4.95330	2068.10001	.18590	.18550	.18590	.18690	.18650	.18670	.18910	891.56000
1.397	14.958	-4.94020	2068.79999	.18620	.18600	.18630	.18640	.18610	.18600	.18900	891.87000
1.393	17.119	-4.97920	2068.79999	.18440	.18410	.18410	.18470	.18430	.18620	.18620	891.90000
1.400	21.459	-4.98100	2068.79999	.18240	.18358	.18340	.18340	.18330	.18350	.18460	891.94000
GRADIENT		-.00764	-.33648	.00067	.00070	.00070	.00065	.00056	.00050	.00022	-.14907

TABULATED DATA - 0A161 (ARC 11-97-87-084)

(BESTREN) (02 AUG 76)

ARC 11-97-87-894 0A161 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2680.0000 SO.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AILRON =

-2.000 ELEVON = .000
5.000 BOFLAP = -7.170

RUN NO. 282/ 0 RNAL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.596	.089	-1.83260	2628.89999	.75210	.75230	.75250	.75190	.75280	.75230	.74740	513.57000
.596	4.180	-1.84670	2629.60001	.75180	.75120	.75170	.75160	.75180	.75200	.74870	514.74000
.595	8.344	-1.83600	2629.60001	.75180	.75220	.75290	.75200	.75150	.75200	.74970	513.58000
.595	10.455	-1.83420	2629.60001	.75200	.75260	.75210	.75250	.75270	.75200	.75040	513.58000
.595	12.574	-1.82650	2629.60001	.75130	.75180	.75110	.75190	.75230	.75100	.75100	513.58000
.597	14.668	-1.79550	2629.60001	.74790	.74920	.74970	.74920	.74920	.74850	.75000	515.32000
.596	16.805	-1.86860	2629.60001	.74570	.74620	.74610	.74620	.74650	.74650	.74850	513.58000
.596	21.066	-1.85330	2629.60001	.73890	.73870	.73850	.73850	.73900	.73900	.74370	511.83000
.594	GRADIENT	-.00345	.1716	-.00007	-.00027	-.00020	-.00007	-.00024	-.00007	.00032	.28505

RUN NO. 199/ 0 RNAL = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.902	.083	-1.87880	2108.39999	.52300	.52370	.52240	.52320	.52420	.52340	.50840	708.43000
.901	4.240	-1.84550	2109.10001	.52640	.52670	.52710	.52640	.52670	.52700	.51660	707.67000
.900	6.360	-1.84440	2109.79999	.52660	.52490	.52620	.52570	.52730	.52640	.52070	707.74000
.900	8.467	-1.84860	2109.10001	.52530	.52730	.52830	.52870	.52700	.52840	.52420	707.25000
.899	10.607	-1.84200	2108.39999	.52560	.52360	.52360	.52530	.52310	.52280	.52070	706.33000
.900	12.737	-1.81980	2109.10001	.51900	.51490	.51680	.51680	.51510	.51430	.51960	707.25000
.900	14.855	-1.82930	2109.79999	.51000	.51180	.51050	.50780	.50750	.51050	.51460	708.57000
.902	17.033	-1.88650	2107.70001	.50130	.50190	.50280	.50350	.50300	.50280	.50920	705.41000
.899	21.347	-1.87380	2110.50000	.47340	.47310	.47400	.47530	.47410	.47600	.49370	709.46000
.902	GRADIENT	.00803	.16837	.00082	.00072	.00113	.00077	.00050	.00087	.00197	.18280

RUN NO. 192/ 0

RNAL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.990	.065	-1.84620	2065.60001	.43160	.43310	.43280	.43190	.43130	.42970	.42170	751.35000
.980	4.284	-1.85340	2065.20001	.43460	.43260	.43280	.43310	.43370	.43530	.42700	750.43000
.979	8.541	-1.84270	2067.39999	.43000	.43050	.42920	.42730	.42880	.42700	.42610	751.06000
.978	10.686	-1.82200	2065.20001	.42420	.42510	.42470	.42670	.42500	.42770	.42750	749.32000
.979	12.842	-1.81610	2065.60001	.41810	.41830	.41570	.41560	.41560	.41610	.41650	750.61000
.979	14.977	-1.84860	2065.89999	.41120	.40970	.41120	.41260	.41110	.41240	.41650	750.15000
.978	17.179	-1.89700	2065.89999	.40470	.40470	.40520	.40550	.40690	.40540	.41140	749.78000
.980	21.506	-1.87680	2068.10001	.39400	.39400	.39330	.39440	.39520	.39440	.40330	751.89000
	GRADIENT	-.00314	-.33342	.00071	-.00012	.00012	.00029	.00057	.00133	.00126	-.21911

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(BE7R24) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = -0.00
AILRON = 5.000 BDFLAP = -7.170

TABULATED DATA - QALB1 (ARC 11-97-87-094)
ARC 11-97-87-094 QALB1 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 189 0 RN/L = 4.26 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.102	.086	-1.87890	2017.80000	.34040	.34080	.34020	.34040	.34060	.34810	.33490	801.44000
1.101	4.266	-1.86210	2018.50000	.33810	.33850	.33810	.33830	.33850	.33850	.33640	801.29000
1.101	8.559	-1.83110	2020.00000	.33370	.33370	.33370	.33380	.33430	.33360	.33510	801.56000
1.100	10.721	-1.82340	2017.80000	.33310	.33330	.33310	.33310	.33240	.33300	.33420	800.61000
1.101	12.874	-1.80790	2019.30000	.33010	.33010	.33010	.33010	.32430	.33040	.33210	801.43000
1.101	15.032	-1.84810	2018.50000	.32430	.32430	.32430	.32430	.32430	.32470	.32930	801.02000
1.101	17.257	-1.89960	2019.30000	.32040	.32070	.32120	.32110	.32080	.32080	.32530	801.16000
1.100	21.581	-1.87880	2017.10001	.31160	.31210	.31210	.31180	.31280	.31200	.31950	801.03000
1.102	GRADIENT	.00402	.16750	-.00055	-.00055	-.00050	-.00050	-.00055	-.00038	.00035	-.03588

RUN NO. 182 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.199	.050	-1.86720	2017.80000	.28350	.28420	.28390	.28290	.28290	.28320	.27700	838.46000
1.196	4.238	-1.85840	2016.39999	.28400	.28330	.28300	.28380	.28350	.28400	.28030	836.92000
1.197	8.549	-1.84430	2018.50000	.27740	.27710	.27720	.27750	.27730	.27740	.27810	838.04000
1.196	10.719	-1.81980	2017.10001	.27600	.27610	.27560	.27550	.27560	.27510	.27670	837.09000
1.195	12.869	-1.81410	2017.10001	.27420	.27360	.27310	.27340	.27350	.27370	.27560	836.89000
1.196	15.026	-1.85780	2017.10001	.26860	.26830	.26820	.26920	.26830	.26850	.27220	837.29000
1.194	17.238	-1.80250	2017.10001	.26330	.26330	.26300	.26280	.26400	.26480	.26680	836.49000
1.198	21.573	-1.87800	2020.70000	.26190	.26190	.26200	.26190	.26070	.26040	.26500	839.37000
1.198	GRADIENT	.00193	-.33273	.00012	-.00021	-.00021	.00021	.00014	.00019	.00073	-.36501

RUN NO. 179 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.398	.048	-1.87750	2067.39999	.19220	.19240	.19200	.19240	.19340	.19210	.18950	891.36000
1.398	4.207	-1.94420	2068.10001	.19370	.19360	.19370	.19410	.19410	.19360	.19480	891.61000
1.397	8.485	-1.84320	2068.10001	.19320	.19300	.19300	.19370	.19270	.19320	.19210	891.56000
1.400	10.647	-1.83000	2068.10001	.19180	.19180	.19180	.19220	.19190	.19150	.19190	891.68000
1.398	12.789	-1.83570	2067.39999	.19020	.19050	.18980	.19000	.18990	.18950	.19080	891.26000
1.398	14.983	-1.85820	2068.10001	.18890	.18860	.18860	.18860	.18940	.18910	.19530	891.61000
1.399	17.147	-1.89520	2067.39999	.18580	.18530	.18530	.18500	.18630	.18600	.18660	891.30000
1.403	21.489	-1.88950	2068.79999	.18130	.18140	.18140	.18150	.18130	.18160	.18540	891.92000
1.403	GRADIENT	-.00882	.15827	.00036	.00034	.00041	.00041	.00017	.00036	.00053	.37432

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(187225) (02 AUG 76)

TABULATED DATA - 04161 (ARC 11-97-87-094)
ARC 11-97-87-094 04161 ORBITER

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 5.000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XPRP = 1075.6808 IN. XO
LREF = 474.8000 IN. YPRP = .0000 IN. YO
BREF = 935.6800 IN. ZPRP = 379.0000 IN. ZO
SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
.587	.081	.21610	2628.89998	.75110	.75220	.75110	.75190	.75200	.75190	.74810	514.73000
.586	.182	.21530	2628.89999	.75230	.75160	.75280	.75280	.75180	.75130	.74940	513.57000
.534	6.258	.22160	2628.89999	.75220	.75280	.75280	.75290	.75330	.75290	.75050	511.82000
.535	8.342	.23020	2629.60001	.75230	.75310	.75350	.75260	.75380	.75330	.75180	513.58000
.595	10.443	.22440	2629.60001	.75180	.75170	.75220	.75290	.75280	.75240	.75230	514.16000
.595	12.541	.22590	2629.60001	.75300	.75220	.75290	.75070	.75000	.75050	.75110	514.16000
.595	14.659	.23520	2629.60001	.75090	.75070	.74990	.74980	.74950	.74960	.74960	515.91000
.597	16.778	.22710	2629.60001	.74820	.74800	.73980	.74800	.74000	.74470	.74470	515.94000
.597	21.025	.21880	2631.00000	.73990	.73960	.73980	.73990	.73980	.73980	.73980	514.13000
.595	25.193	.21060	2631.00000	.72770	.72790	.72580	.72890	.72800	.72800	.72800	514.13000
	GRADIENT	.00820	.00000	.00067	.00015	.00022	.00002	.00005	.00013	.00032	.28284

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
.901	.045	.19500	2107.70001	.52530	.52490	.52510	.52520	.52530	.52530	.51430	707.12000
.900	4.243	.21950	2107.70001	.52730	.52780	.52800	.52860	.52830	.52820	.52068	706.27000
.899	6.350	.22160	2108.10001	.52880	.52770	.52730	.52670	.52630	.52620	.52370	706.40000
.900	8.474	.22340	2108.79999	.52760	.52580	.52440	.52640	.52530	.52490	.52460	707.32000
.900	10.602	.22500	2109.39999	.52160	.52350	.52170	.52060	.52230	.52190	.52400	707.19000
.899	12.722	.22500	2107.76001	.51880	.51020	.51800	.51630	.51390	.51500	.51560	705.64000
.897	14.864	.23340	2109.79999	.51180	.51020	.51030	.50880	.50770	.51040	.51480	705.16000
.904	17.018	.23070	2109.79999	.50110	.50420	.50400	.50240	.50150	.50190	.50970	710.22000
.902	21.282	.22570	2109.10001	.47240	.47810	.47920	.47920	.48050	.48020	.49584	713.50000
	GRADIENT	.00585	.00001	.00048	.00058	.00068	.00081	.00085	.00059	.00150	.20246

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
.978	.055	.22230	2065.89999	.43940	.43430	.43490	.43250	.43380	.43230	.42330	749.78000
.980	4.275	.21180	2064.50000	.43550	.43540	.43720	.43670	.43580	.43470	.42710	750.35000
.980	8.551	.23980	2066.60001	.42630	.42880	.42710	.42550	.42690	.42530	.42830	753.98000
.977	10.707	.22630	2064.50001	.42590	.42830	.42710	.42710	.42630	.42390	.42320	748.48000
.978	12.850	.21530	2065.89999	.41860	.42190	.42480	.42560	.42770	.42480	.42550	749.78000
.978	15.001	.20430	2065.89999	.40970	.41160	.41120	.41350	.41450	.41910	.41290	749.69000
.979	17.157	.22730	2065.20001	.40430	.40630	.40870	.40370	.40520	.40330	.40430	752.73000
.981	21.454	.20510	2068.79999	.39350	.39450	.39400	.39410	.39450	.39461	.40430	752.73000
	GRADIENT	.00249	.00000	.00002	.00050	.00054	.00100	.00050	.00057	.00090	.13526

TABULATED DATA - 04161 (ARC 11-27-87-094)
ARC 11-97-87-094 04161 ORBITER

REFERENCE DATA

SREF = 2690.0000 90.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 9.008 BDFLAP = -7.170

RUN NO. 188/ 0 RNL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.100	.050	.20720	2016.39999	.34250	.34260	.34270	.34280	.34290	.34300	.34310	732.80000
1.102	.282	.21750	2017.80000	.34080	.34070	.34150	.34090	.34150	.34080	.33780	801.15000
1.101	8.569	.23870	2028.00000	.33670	.33690	.33690	.33710	.33530	.33680	.33720	801.55000
1.101	10.728	.25880	2017.10001	.33450	.33470	.33470	.33520	.33510	.33470	.33540	800.48000
1.101	12.881	.23050	2018.50880	.33190	.33250	.33180	.33200	.33180	.33110	.33460	801.02000
1.101	19.058	.25400	2018.50008	.32510	.32450	.32480	.32470	.32490	.32480	.33850	800.75000
1.099	17.257	.22640	2017.80000	.32310	.32210	.32270	.32270	.32470	.32470	.32650	800.35000
1.101	21.529	.21840	2017.10801	.31390	.31420	.31400	.31440	.31400	.31340	.32090	800.48000
	GRADIENT	.00243	.33877	-.00043	-.00038	-.00045	-.00038	-.00028	-.00038	.00059	.32132

RUN NO. 183/ 0 RNL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.196	.044	.17740	2017.10001	.28550	.28540	.28590	.28580	.28520	.28520	.27870	837.29000
1.199	4.267	.21430	2017.10001	.28310	.28350	.28410	.28420	.28320	.28320	.28080	838.08000
1.197	5.408	.21910	2015.78000	.28028	.28150	.28120	.28280	.28270	.28190	.28050	838.94000
1.194	8.563	.23870	2019.38000	.27990	.27920	.27990	.27950	.27920	.27950	.27990	837.42000
1.196	10.737	.25400	2019.38000	.27710	.27710	.27730	.27760	.27800	.27730	.27890	838.28000
1.199	12.881	.23050	2017.10001	.27360	.27390	.27450	.27520	.27530	.27571	.27800	838.08000
1.199	15.032	.25400	2017.80000	.26960	.26800	.26830	.26880	.26760	.26800	.27330	837.27000
1.195	17.217	.22640	2018.39999	.26440	.26480	.26530	.26530	.26510	.26420	.26910	836.52000
1.199	21.523	.21840	2020.70800	.26040	.26090	.26080	.26190	.26190	.26200	.26560	839.56000
1.200	25.749	.22670	2016.38999	.24980	.24910	.24970	.25030	.25060	.25210	.26050	839.10000
	GRADIENT	.00874	.00800	-.00057	-.00045	-.00043	-.00033	-.00047	-.00047	.00054	.18709

RUN NO. 178/ 0 RNL = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.400	.011	.16370	2068.79999	.19420	.19410	.19490	.19520	.19450	.19500	.19310	891.92000
1.400	2.105	.21690	2068.10001	.19650	.19610	.19680	.19620	.19600	.19630	.19480	891.52000
1.399	4.215	.19430	2055.60001	.19800	.19770	.19790	.19870	.19810	.19800	.19540	890.99000
1.396	6.344	.23960	2057.39998	.19650	.19660	.19700	.19670	.19690	.19630	.19710	891.23000
1.399	8.500	.23960	2058.10001	.19450	.19450	.19490	.19430	.19460	.19450	.19600	891.58000
1.395	10.650	.24140	2057.39999	.19360	.19350	.19410	.19420	.19390	.19380	.19500	891.23000
1.399	12.804	.22650	2068.10001	.19150	.19160	.19140	.19170	.19130	.19160	.19340	891.58000
1.398	14.965	.22770	2067.39999	.18980	.18990	.18930	.18950	.18900	.18960	.19170	891.27000
1.399	17.135	.23270	2058.10001	.18620	.18640	.18650	.18650	.18650	.18640	.18240	891.59000
1.399	21.439	.20130	2058.10001	.18230	.18230	.18200	.18190	.18190	.18200	.18570	891.51000
1.400	25.700	.21950	2058.10001	.17770	.17750	.17730	.17760	.17780	.17750	.18280	891.69000
	GRADIENT	.00726	-.52346	.00090	.00086	.00071	.00063	.00065	.00071	.00078	-.22128

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(BETRES) 1 02 AUG 76)

ARC 11-97-87-094 0A161 ORBITTER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA =
 A.LRON =
 2.000 ELEVON = .000
 9.000 BDELAP = -2.170

RUN NO. 204/ 0 RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF)
.597	.039	2.27248	2625.89989	.75070	.75180	.75140	.75160	.75200	.75170	.74640	514.73000
.594	4.195	2.31430	2623.60001	.75230	.75060	.75120	.75110	.75130	.75110	.74790	511.83000
.597	8.367	2.32650	2630.29999	.75210	.75190	.75190	.75150	.75070	.75150	.74920	515.92000
.596	10.475	2.33890	2631.00000	.75130	.75130	.75180	.75200	.75190	.75210	.74950	514.77000
.595	12.630	2.32900	2631.00000	.75100	.75090	.75080	.75170	.75050	.75090	.75010	513.61000
.595	14.764	2.31350	2631.00000	.75170	.75090	.75090	.75150	.75060	.75060	.75050	513.22000
.595	16.908	2.31320	2631.00000	.74850	.74950	.74980	.74850	.74870	.74830	.74880	514.15000
.595	21.123	2.25940	2632.50000	.73920	.73950	.73920	.74050	.74090	.74130	.74450	516.54000
.597	GRADIENT	.01022	.17068	.00039	-.00029	-.00005	-.00012	-.00017	-.00015	.00037	-.70707

RUN NO. 197/ 0 RV/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF)
.901	.039	2.30330	2108.39989	.52400	.52360	.52470	.52420	.52410	.52490	.51600	707.60000
.901	4.255	2.32210	2105.50000	.52630	.52710	.52650	.52680	.52650	.52660	.52070	706.50000
.599	6.372	2.32720	2107.70001	.52700	.52610	.52730	.52650	.52630	.52700	.52250	705.84000
.901	8.499	2.32180	2110.50000	.52450	.52190	.52290	.52330	.52560	.52490	.52290	708.64000
.900	10.626	2.33330	2107.70001	.51870	.52080	.52040	.51940	.52160	.52130	.52300	706.70000
.899	12.792	2.31500	2107.70001	.51340	.51410	.51440	.51360	.51200	.51140	.51760	705.84000
.903	14.954	2.33790	2111.20001	.50290	.50250	.50290	.50240	.50240	.50580	.51170	710.35000
.903	17.131	2.34790	2107.70001	.49690	.49570	.49710	.49660	.49710	.49920	.50580	706.70000
.902	21.382	2.33276	2110.50000	.47230	.47210	.47390	.47190	.47110	.47330	.49030	709.05000
	GRADIENT	.00446	-.68788	.00055	.00083	.00043	.00062	.00057	.00040	.00111	-.26092

RUN NO. 194/ 0 RV/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF)
.990	.070	2.28270	2065.60001	.43280	.43220	.43310	.43240	.43360	.43440	.42350	750.98000
.990	4.289	2.32380	2064.50000	.43470	.43110	.43170	.43280	.43300	.43200	.42710	750.35000
.979	8.575	2.33290	2067.39999	.42810	.43010	.42910	.42800	.42810	.42610	.42720	751.06000
.978	10.734	2.32230	2065.89999	.42230	.42180	.42590	.42850	.42890	.42880	.42740	749.78000
.978	12.899	2.29560	2065.89999	.42740	.42548	.42750	.42370	.42280	.42170	.42530	749.40000
.979	15.055	2.34490	2066.60001	.41130	.40780	.41110	.41170	.41190	.41260	.42040	750.23000
.979	17.268	2.34840	2065.89988	.41260	.41260	.41210	.41270	.41330	.41250	.42730	750.52000
.979	21.548	2.31950	2068.79999	.39760	.39630	.39680	.39720	.39760	.39800	.40850	752.35000
.991	GRADIENT	.00974	-.49786	.00045	-.00026	-.00033	.00009	-.00014	-.00057	.00018	-.14936

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.8800 IN. XO
 LREF = 474.8000 IN. YMRP = .0900 IN. YO
 BREF = 986.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 187/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1P5F1
1.102	.052	2.29870	2017.10001	.34100	.34050	.33970	.33900	.33850	.33840	.33550	801.33000
1.102	4.292	2.31970	2017.80000	.33970	.33960	.33970	.33970	.33950	.33940	.33590	801.16020
1.100	8.588	2.32200	2018.30000	.33430	.33440	.33380	.33380	.33350	.33350	.33470	800.66000
1.099	10.751	2.32978	2017.10000	.33320	.33330	.33240	.33230	.33280	.33300	.33390	800.65000
1.101	12.933	2.30450	2020.00000	.33110	.33040	.33090	.33090	.33250	.33030	.33180	801.56000
1.099	15.113	2.35000	2017.10001	.32850	.32860	.32930	.32910	.32890	.32890	.33070	799.37000
1.099	17.347	2.35860	2019.30000	.32440	.32440	.32490	.32530	.32480	.32620	.32680	800.50000
1.102	21.636	2.36620	2022.10001	.31040	.30990	.31030	.30980	.31030	.30950	.32050	803.56000
	GRADIENT	.00613	.16508	-.00031	-.00042	-.00021	-.00031	-.00035	-.00040	.00080	.03066

RUN NO. 184/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1P5F1
1.197	.053	2.28560	2017.10001	.28090	.28140	.28070	.28090	.28180	.28120	.27520	837.49000
1.198	4.280	2.30340	2016.39999	.28070	.28030	.28120	.28170	.28050	.28190	.27790	937.71000
1.198	8.590	2.32930	2017.80000	.28000	.27960	.27980	.27990	.27930	.27870	.27850	938.26000
1.198	10.753	2.33290	2018.50000	.27590	.27650	.27530	.27530	.27470	.27420	.27650	838.44000
1.191	12.934	2.30600	2017.80000	.27430	.27480	.27360	.27460	.27430	.27040	.27550	835.66000
1.199	15.101	2.36320	2017.80000	.26860	.26750	.26820	.26890	.26860	.27040	.27330	838.46000
1.193	17.328	2.36610	2017.10001	.26700	.26710	.26750	.26720	.26590	.26730	.27070	836.29000
1.200	21.614	2.35560	2021.39999	.26160	.26140	.26150	.26180	.26310	.26280	.26720	840.33000
	GRADIENT	.00413	-.16602	-.00005	-.00026	.00012	.00019	-.00028	.00017	.00064	.05218

RUN NO. 177/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1P5F1
1.400	.016	2.33780	2057.39999	.19230	.19270	.19250	.19220	.19230	.19250	.19550	887.05000
1.392	4.226	2.33030	2056.70001	.19430	.19390	.19430	.19430	.19430	.19490	.19590	886.73000
1.397	8.517	2.31880	2058.20001	.19270	.19260	.19270	.19250	.19210	.19270	.19450	887.28000
1.397	10.774	2.32900	2057.39999	.19020	.19020	.19040	.19010	.19040	.19030	.19250	886.99000
1.397	12.850	2.29000	2058.20001	.18870	.18830	.18840	.18840	.18840	.18930	.19150	837.32000
1.399	15.014	2.35080	2058.20001	.18990	.18950	.19020	.19040	.19010	.19110	.19110	887.36000
1.399	17.236	2.35920	2057.39999	.18780	.18770	.18800	.18780	.18730	.18760	.18990	887.32000
1.399	21.521	2.29320	2058.89999	.18550	.18530	.18530	.18530	.18590	.18560	.18940	887.64000
	GRADIENT	-.00181	-.16628	.00048	.00029	.00048	.00050	.00057	.00057	.00010	-.07601

0000210
 0000210

TABULATED DATA - 0A161 (ARC 11-97-87-99%)
ARC 11-97-87-99% 0A161 ORBITER

(BE7R27) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AHLRON = 5.080 BDFLAP = -7.170

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

MACH	ALPHA	BETA	PT	RUN NO.	2054 0	RN/L = 4.23	GRADIENT INTERVAL = -5.00%	5.0%
.597	.106	5.36240	2629.68001					
.596	4.212	5.39310	2629.68001					
.595	8.392	5.40360	2630.29999					
.594	10.514	5.39370	2630.29999					
.593	12.639	5.39410	2631.00000					
.592	14.761	5.38790	2631.00000					
.591	16.871	5.38530	2631.00000					
.590	21.085	5.39700	2631.00000					
GRADIENT		.00748	.00000					

MACH	ALPHA	BETA	PT	RUN NO.	1967 0	RN/L = 4.22	GRADIENT INTERVAL = -5.00%	5.0%
.899	.067	5.37970	2104.79999					
.900	4.268	5.41980	2109.79999					
.901	6.398	5.42400	2109.79999					
.902	8.512	5.41980	2107.00000					
.903	10.665	5.40980	2109.79999					
.904	12.794	5.41250	2109.79999					
.905	14.931	5.43420	2108.39999					
.906	17.065	5.45160	2108.39999					
.907	21.363	5.46300	2111.89999					
GRADIENT		.00935	.85683					

MACH	ALPHA	BETA	PT	RUN NO.	1957 0	RN/L = 4.26	GRADIENT INTERVAL = -5.00%	5.0%
.979	.080	5.38970	2067.39999					
.980	4.301	5.41550	2064.50000					
.981	6.588	5.41610	2065.88899					
.982	8.757	5.39530	2067.39999					
.983	10.894	5.39730	2066.89999					
.984	12.894	5.39730	2066.89999					
.985	15.044	5.40750	2066.89999					
.986	17.205	5.44360	2065.89999					
.987	21.515	5.45000	2066.79999					
GRADIENT		.00611	.68695					

PT6/PT	PT7/PT	Q(PSF)
.75020	.74880	513.32000
.75010	.74980	514.74000
.75060	.74920	514.17000
.75160	.75030	513.99000
.75130	.75010	515.35000
.75130	.74990	511.86000
.74930	.74830	514.19000
.74740	.74558	514.19000
.00005	.00005	.14124

PT6/PT	PT7/PT	Q(PSF)
.52150	.46800	705.17000
.52380	.46860	706.77000
.52380	.50150	708.57000
.52380	.51140	705.35000
.51860	.51370	708.15000
.51520	.51490	707.74000
.51380	.51270	706.33000
.50510	.50920	706.77000
.47960	.49510	709.69000
.00036	.00533	.38082

PT6/PT	PT7/PT	Q(PSF)
.43060	.42920	751.06000
.43060	.42870	750.38000
.43190	.42980	748.65000
.42950	.42900	749.20000
.42830	.42870	749.78000
.41390	.42260	748.65000
.39750	.41140	751.63000
.00000	.00083	.16849

TABULATED DATA - 0A161 (ARC 11-97-87-894)

(187R281 (02 AUG 76)

ARC 11-97-87-894 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 939.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA =
 AILRON =
 -5.000 ELEVON = .000
 7.500 BOFLAP = -7.170

RUN NO. 2104 0 RN/L = 4.24 GRADIENT INTERVAL = -5.084 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.586	.141	-4.90680	2591.39999	.75040	.75030	.75090	.75010	.75030	.74950	.74700	506.47000
.596	4.268	-4.92480	2592.10001	.74940	.74940	.75010	.75010	.74970	.75000	.74830	507.07000
.596	8.370	-4.90310	2592.89999	.75050	.74980	.75000	.75030	.74960	.74990	.74910	506.49000
.596	10.480	-4.88820	2592.89999	.75040	.75040	.75040	.75110	.75000	.74990	.75010	506.49000
.596	12.588	-4.85830	2592.89999	.74780	.74830	.74870	.74840	.74950	.74930	.74950	506.49000
.597	14.684	-4.85330	2592.89999	.74580	.74550	.74470	.74420	.74350	.74330	.74350	507.08000
.596	16.775	-4.86050	2592.89999	.73370	.73370	.73360	.73380	.73380	.73360	.74310	509.40000
.598	21.015	-4.88240	2592.89999	.73840	.73840	.73850	.73850	.73850	.73850	.74310	509.40000
	GRADIENT		.17228	-.00012	-.00022	-.00028	.00000	-.00015	.00012	.00032	.14765

RUN NO. 2111 0 RN/L = 4.24 GRADIENT INTERVAL = -5.034 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.901	.124	-4.95580	2126.10001	.52170	.52250	.52260	.52170	.52170	.52690	.74150	713.43000
.901	4.282	-4.93750	2127.50000	.52340	.52240	.52180	.52140	.52070	.52090	.64660	713.98000
.901	6.396	-4.94070	2128.89999	.52350	.52190	.52390	.52320	.52100	.52100	.59880	714.53000
.903	8.516	-4.93050	2129.60001	.51960	.52080	.52470	.52270	.52270	.52390	.56300	716.67000
.897	10.651	-4.91060	2130.29999	.52310	.52270	.52170	.52120	.51960	.51960	.50760	712.09000
.900	12.784	-4.92260	2136.70001	.51430	.51420	.51440	.51460	.51280	.51320	.51820	716.09000
.900	14.897	-4.92260	2135.20001	.50910	.51000	.51020	.50930	.50970	.50880	.51410	715.96000
.900	17.032	-4.93260	2134.50000	.50020	.49820	.49920	.50050	.50130	.50030	.50770	715.47000
.898	21.320	-4.96930	2133.79999	.47870	.48010	.47960	.47960	.48050	.48140	.49650	713.69000
	GRADIENT		.33670	.00041	-.00002	-.00019	-.00007	-.00024	.00000	-.02285	.13228

RUN NO. 2211 0 RN/L = 4.27 GRADIENT INTERVAL = -5.084 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.198	.115	-4.98800	2046.10001	.28960	.28170	.28120	.28130	.28170	.28290	.22950	849.92000
1.203	4.280	-4.95050	2026.30000	.27940	.27840	.27800	.27940	.27940	.27940	.25250	843.13000
1.198	8.571	-4.94330	2020.70000	.27360	.27360	.27470	.27440	.27490	.27530	.26850	839.17000
1.207	10.725	-4.92960	2019.30000	.26950	.26940	.26980	.26980	.26870	.26950	.26880	839.40000
1.196	12.885	-4.92530	2019.30000	.26980	.26870	.26840	.26860	.26870	.26880	.26950	839.22000
1.193	15.041	-4.93890	2019.30000	.26400	.26400	.26400	.26450	.26510	.26450	.26590	839.20000
1.193	17.221	-4.94170	2019.30000	.26030	.26030	.26190	.26180	.26070	.26120	.26440	839.81000
1.198	21.544	-4.96130	2022.10001	.26450	.26450	.26430	.26410	.26380	.26520	.26460	839.92000
	GRADIENT		-4.75321	-.00029	-.00079	-.00077	-.00046	-.00055	-.00084	.00562	-1.63001

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = 7.500 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 2204 0. RMYL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.402	.073	-4.98750	2075.79999	.18750	.18750	.18750	.18750	.18750	.18770	.18740	895.00000
1.402	4.236	-4.93950	2075.79999	.18640	.18720	.18780	.18670	.18720	.18690	.18720	895.00000
1.398	8.503	-4.96870	2078.00000	.18940	.18970	.18990	.19000	.18940	.18950	.18820	895.00000
1.401	10.450	-4.95430	2078.00000	.18740	.18730	.18740	.18710	.18760	.18780	.18780	895.00000
1.400	12.801	-4.93120	2077.29999	.18640	.18620	.18590	.18680	.18590	.18630	.18730	895.58000
1.392	14.968	-4.95440	2077.29999	.18400	.18500	.18420	.18410	.18420	.18380	.18630	895.55000
1.398	17.132	-4.93440	2077.29999	.18340	.18340	.18290	.18350	.18350	.18370	.18520	895.55000
1.398	21.478	-4.96600	2078.70001	.18500	.18510	.18450	.18510	.18530	.18500	.18470	895.15000
	GRADIENT	.01177	.00000	-.00029	-.00040	.08007	-.00022	-.00007	-.00019	-.00005	.00000

ARC 11-97-87-094 0A161 ORBITER

(02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -2.080 ELEVON = .000
AILRON = 7.500 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 2094 0. RMYL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.596	.109	-1.85180	2593.60001	.75000	.74930	.74910	.74860	.74930	.74970	.82840	587.67000
.597	4.181	-1.82350	2593.60001	.74980	.75070	.75100	.75000	.74950	.74950	.79430	508.26000
.597	8.343	-1.81870	2593.60001	.75030	.75000	.74990	.74990	.74970	.74980	.77510	508.26000
.595	10.450	-1.81830	2593.60001	.74950	.75000	.75010	.74910	.75030	.75080	.75430	507.67000
.596	12.577	-1.80430	2594.29999	.74860	.74860	.74940	.74940	.74980	.74910	.74850	507.67000
.598	14.676	-1.81050	2593.60001	.74600	.74670	.74700	.74670	.74690	.74730	.74860	507.09000
.596	16.893	-1.84160	2593.60001	.74380	.74450	.74400	.74390	.74400	.74380	.74650	507.09000
.597	21.061	-1.84160	2595.08000	.73420	.73580	.73560	.73550	.73500	.73560	.74210	508.28000
	GRADIENT	.00684	.00000	-.00005	.00834	.00047	.00834	.00005	-.00005	-.00837	.14476

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(BE7R29) (02 AUG 75)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0308

BETA =
AILRON =
-2.080 ELEVON = .000
7.500 BDFLAP = -7.170

RUN NO. 212/ 0 RWL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.980	.058	-1.8356	2133.7999	.5228	.5284	.5216	.5216	.5215	.5216	.5175	719.41000
.981	4.259	-1.8520	2133.7999	.5250	.5250	.5247	.5247	.5234	.5250	.5218	716.25000
.990	6.372	-1.8323	2133.7999	.5238	.5238	.5240	.5237	.5228	.5208	.5209	715.41000
.991	8.491	-1.8356	2133.7999	.5218	.5218	.5210	.5210	.5211	.5219	.5204	715.83000
.999	10.624	-1.8356	2133.7999	.5188	.5188	.5190	.5190	.5191	.5192	.5198	714.98000
.902	12.755	-1.8275	2134.5000	.5118	.5118	.5130	.5130	.5139	.5120	.5120	717.55000
.903	14.874	-1.8272	2134.5000	.5059	.5059	.5059	.5060	.5060	.5060	.5058	715.83000
.961	17.057	-1.8510	2133.7999	.4992	.4992	.4956	.4970	.4977	.4983	.4916	718.45000
.903	21.356	-1.8594	2135.2001	.4719	.4734	.4760	.4737	.4760	.4724	.00102	.20017
	GRADIENT	-.00467	.00000	.00067	.00076	.00074	.00071	.00045	.00102		

RUN NO. 222/ 0 RWL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.200	.058	-1.8400	2020.0000	.2824	.2835	.2816	.2823	.2820	.2822	.2766	839.77500
1.199	4.260	-1.8698	2018.5000	.2799	.2804	.2807	.2805	.2810	.2808	.2763	838.43000
1.201	8.549	-1.8447	2019.3000	.2760	.2754	.2760	.2771	.2773	.2774	.2774	839.59000
1.199	10.725	-1.8177	2018.5000	.2743	.2748	.2743	.2743	.2749	.2753	.2761	838.63000
1.196	12.878	-1.8195	2018.5000	.2698	.2704	.2706	.2706	.2706	.2698	.2731	837.65000
1.199	15.027	-1.8556	2017.8000	.2647	.2650	.2640	.2644	.2648	.2645	.2692	838.46000
1.199	17.244	-1.8839	2019.3000	.2590	.2590	.2601	.2597	.2595	.2600	.2650	839.01000
1.199	21.584	-1.8764	2020.7000	.2579	.2582	.2584	.2581	.2581	.2588	.2617	839.56000
	GRADIENT	-.00709	-.35695	-.00059	-.00074	-.00021	-.00043	-.00045	-.00033	.00040	-.22368

RUN NO. 219/ 0

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.404	.051	-1.8920	2077.2999	.1893	.1895	.1892	.1893	.1894	.1897	.1863	895.64800
1.402	4.218	-1.8808	2076.5000	.1900	.1905	.1898	.1900	.1898	.1902	.1870	895.31000
1.398	8.492	-1.8345	2077.2999	.1910	.1903	.1895	.1899	.1898	.1895	.1890	895.58000
1.399	10.656	-1.8258	2077.2999	.1895	.1896	.1894	.1892	.1890	.1893	.1895	895.55000
1.400	12.799	-1.8164	2077.2999	.1881	.1886	.1883	.1878	.1879	.1888	.1877	895.28000
1.400	14.940	-1.8461	2076.5000	.1879	.1875	.1875	.1876	.1876	.1865	.1870	895.28000
1.402	17.159	-1.8158	2076.5000	.1841	.1835	.1835	.1841	.1838	.1839	.1860	895.31000
1.399	21.511	-1.8840	2078.0000	.1806	.1804	.1805	.1807	.1805	.1807	.1838	895.87000
	GRADIENT	.00269	-.19197	.00017	.00024	.00017	.00026	.00012	.00012	.00036	-.07919

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TABULATED DATA - 04161 (ARC 11-97-87-89%)

ARC 11-97-87-89% ORIGIN

(8E7R50) (02 AUG 75)

PARAMETRIC DATA

BETA = .000
ELEVON = .000
AFLON = 7.500
BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8800 IN.
BREF = 936.6800 IN.
SCALE = .0300

XMRP = 1076.6800 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

RUN NO. 208/ 0 RM/L = 4.22 GRADIENT INTERVAL = -5.08/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.596	.071	.20980	2603.50000	.75000	.75000	.75000	.75040	.75040	.75020	.74930	509.02000
.595	4.173	.22290	2604.20000	.75070	.75120	.75130	.75090	.75130	.75050	.75020	507.87000
.596	6.242	.22690	2604.89999	.75070	.75070	.75130	.75060	.75050	.75100	.75060	509.05000
.594	8.338	.23680	2604.89999	.75120	.75070	.75050	.75070	.75110	.75050	.75100	507.30000
.596	10.432	.23080	2605.60000	.75090	.75150	.75110	.75110	.75040	.75120	.75080	509.06000
.595	12.527	.23370	2605.60000	.74880	.75000	.74980	.75020	.75096	.75020	.75020	509.48000
.596	14.642	.24740	2605.60000	.74930	.74980	.74870	.74860	.74840	.74940	.74990	509.64000
.596	16.766	.23910	2605.60000	.74880	.74550	.74540	.74620	.74680	.74790	.74790	509.06000
.597	21.019	.22850	2607.00000	.73820	.73820	.73680	.73620	.73720	.73780	.74290	511.41000
.597	25.182	.21690	2607.00000	.72500	.72420	.72350	.72350	.72400	.72400	.73430	510.83000
	GRDIENT	.00319	.17865	.00017	.00017	.00032	.00012	.00022	.00007	.00022	-28034

RUN NO. 213/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.38/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.698	.044	.22400	2133.10000	.52490	.52470	.52380	.52370	.52320	.52330	.51310	713.20000
.900	4.253	.22950	2134.50000	.52400	.52420	.52530	.52450	.52450	.52540	.51820	715.90000
.902	6.371	.22950	2133.79999	.52420	.52480	.52480	.52470	.52330	.52430	.52070	717.07000
.896	8.491	.24180	2133.10000	.52510	.52450	.52300	.52300	.52110	.52090	.52110	711.30000
.901	10.641	.23750	2132.39999	.52200	.52370	.52090	.52150	.51810	.51970	.51900	715.70000
.902	12.748	.22430	2133.79999	.51370	.51340	.51308	.51370	.51520	.51560	.51780	716.66000
.902	14.893	.24140	2134.50000	.50510	.50520	.50040	.50410	.50600	.50740	.51370	717.55000
.903	17.037	.23840	2133.79999	.49910	.50020	.50040	.49970	.50070	.49820	.50660	717.90000
.899	21.304	.22450	2135.70000	.47440	.47400	.47400	.47370	.47380	.47280	.49090	715.22000
.899	25.478	.19660	2132.39999	.44820	.44760	.44690	.44760	.44680	.44550	.47120	714.43000
	GRDIENT	.00131	.33263	.00021	.00012	.00036	.00021	.00031	.00050	.00121	.84147

RUN NO. 223/ 0 RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.200	.048	.21090	2018.50000	.28180	.28150	.28030	.28120	.28010	.28000	.27500	839.02000
1.190	4.274	.22620	2017.10000	.28068	.28050	.28120	.28120	.28190	.28120	.27850	837.88000
1.195	6.401	.22270	2017.80000	.28168	.28060	.28120	.28108	.28050	.28100	.27960	837.27000
1.198	8.570	.23660	2018.50000	.27970	.27930	.28020	.27940	.27950	.27930	.27930	838.44000
1.193	10.738	.23350	2018.50000	.27830	.27790	.27670	.27750	.27730	.27730	.27800	838.44000
1.195	12.898	.23680	2018.50000	.27270	.27350	.27310	.27270	.27280	.27280	.27570	837.84000
1.195	15.059	.24170	2018.50000	.26750	.26880	.26690	.26740	.26690	.26790	.26790	838.02000
1.200	17.223	.22450	2018.50000	.26320	.26320	.26330	.26240	.26260	.26330	.26330	839.13000
1.195	21.530	.21150	2022.10000	.25740	.25740	.25680	.25770	.25820	.25860	.25740	840.12000
1.199	25.759	.21270	2022.10000	.25050	.25050	.25050	.25090	.25030	.24980	.00083	-28975
	GRDIENT	.00409	.33128	.00028	.00024	.00021	.00000	.00043	.00028	.00028	

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BE7R30) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 7.500 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0360

RUN NO. 218/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(P5F)
1.402	.015	.1880	2058.8999	.19140	.19050	.19080	.19070	.19040	.19050	.18880	887.09000
1.407	4.228	.21030	2060.2999	.19260	.19300	.19230	.19250	.19300	.19260	.19030	888.28000
1.400	6.341	.24140	2059.6000	.19360	.19360	.19420	.19370	.19370	.19410	.19220	887.95000
1.398	8.497	.23280	2051.0000	.19370	.19410	.19420	.19420	.19410	.19430	.19310	888.54000
1.398	10.660	.25520	2057.3999	.19300	.19320	.19350	.19320	.19250	.19280	.19320	887.04000
1.397	12.798	.23710	2057.3999	.19040	.19050	.19110	.19050	.19070	.19060	.19190	886.99000
1.398	14.562	.25050	2057.3999	.18880	.18890	.18800	.18870	.18820	.18870	.19090	887.02000
1.398	17.127	.23640	2057.3999	.18590	.18590	.18530	.18540	.18610	.18580	.18850	887.01000
1.398	21.438	.25140	2058.8999	.18098	.18070	.18060	.18080	.18150	.18180	.18530	887.63000
1.396	25.766	.20070	2068.8999	.17650	.17690	.17660	.17710	.17550	.17590	.18170	888.18000
GRADIENT		.00546	.33295	.00029	.00059	.00036	.00043	.00062	.00050	.00036	.14032

ARC 11-97-87-094 0A161 ORBITER

(BE7R31) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 2.000 BOFLAP = -7.178

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 207/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(P5F)
.587	.070	2.29780	2604.2000	.74940	.74920	.74940	.74890	.74970	.75000	.74910	510.78000
.594	4.184	2.31760	2604.2000	.75040	.75040	.75040	.75010	.75060	.75030	.74970	506.12000
.585	8.357	2.33240	2605.6000	.75090	.75140	.75070	.75110	.75100	.75140	.74960	508.48000
.584	10.462	2.34420	2606.6000	.75230	.75190	.75150	.75180	.75150	.75020	.75000	506.73000
.586	12.622	2.37380	2606.2999	.75050	.75090	.75080	.74930	.74940	.75040	.74940	509.65000
.596	14.759	2.32250	2606.2999	.75080	.75090	.75080	.74970	.74950	.75000	.75060	510.24000
.596	18.906	2.31730	2606.2999	.74780	.74770	.74780	.74660	.74700	.74750	.74910	510.24000
.594	21.119	2.30420	2606.2999	.74040	.74060	.74000	.74020	.74150	.74140	.74940	507.33000
GRADIENT		.00481	.00000	.00024	.00029	.00027	.00029	.00026	.00007	.00015	-1.13261

(BE7R31) (02 AUG 76)

PARAMETRIC DATA

 BETA = 2.000 ELEVON = .000
 AILRON = 7.300 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-894)

ARC 11-97-87-894 0A161 ORBITER

REFERENCE DATA

 SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	O(PSF)
.902	.054	2.29100	2137.39999	.52150	.52190	.52060	.52070	.52120	.52200	.52130	718.24000
.902	4.251	2.34200	2133.79999	.52150	.52560	.52508	.52440	.52570	.52360	.52360	716.66000
.901	6.389	2.34180	2138.79999	.52070	.52120	.52150	.52170	.52310	.52210	.52140	717.96000
.900	8.517	2.33610	2134.50000	.52320	.52400	.52390	.52390	.52390	.52400	.52280	719.90000
.901	10.651	2.33920	2138.79999	.51830	.51650	.51540	.51550	.51830	.51830	.51960	717.54000
.901	12.802	2.30590	2136.70001	.51380	.51520	.51240	.51570	.51750	.51520	.51920	717.34000
.901	14.974	2.35530	2138.10001	.50750	.50710	.51150	.50890	.50850	.50420	.50870	717.89000
.905	17.167	2.35910	2140.20001	.49180	.49710	.49440	.49800	.49770	.49550	.50420	721.81000
.904	21.412	2.33330	2138.79999	.47096	.47050	.47410	.47136	.46880	.47140	.49070	720.83000
GRADIENT		.01165	-.89581	.00035	.00088	.00105	.00089	.00121	.00089	.00055	-.37561

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	O(PSF)
1.197	.054	2.27880	2021.39999	.27950	.27960	.27900	.27890	.27900	.27900	.27230	839.35000
1.198	4.279	2.33980	2018.50000	.27750	.27860	.27870	.27840	.27900	.27800	.27500	838.44000
1.198	8.593	2.33870	2020.00000	.27800	.27820	.27810	.27800	.27750	.27780	.27590	838.99000
1.195	10.759	2.33300	2017.80000	.27840	.27800	.27760	.27580	.27570	.27650	.27590	837.47000
1.195	12.938	2.30950	2018.50000	.27520	.27490	.27450	.27370	.27370	.27300	.27450	837.65000
1.195	15.108	2.36590	2017.80000	.27100	.26960	.27000	.27010	.26990	.27020	.27250	837.87000
1.198	17.334	2.37190	2019.50000	.26380	.26460	.26550	.26440	.26460	.26360	.26860	838.83000
1.198	21.623	2.34330	2021.39999	.26330	.26450	.26250	.26140	.26130	.26130	.26530	839.54000
GRADIENT		.01495	-.68796	-.00047	-.00019	-.00087	-.06002	-.00044	-.00024	.00064	-.21587

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	O(PSF)
1.403	.017	2.31550	2036.89999	.18910	.18980	.18920	.18980	.18990	.18870	.18930	878.25000
1.402	4.284	2.31780	2036.89999	.18970	.18970	.19020	.19010	.19010	.19050	.18970	878.23000
1.395	8.514	2.33820	2036.20000	.19136	.19136	.19120	.19180	.19080	.19090	.19070	877.79000
1.397	10.670	2.33230	2037.60001	.18990	.18980	.19010	.19050	.19080	.19080	.19050	878.45000
1.396	12.843	2.30620	2037.60001	.18850	.18900	.18940	.18790	.18840	.18830	.18910	878.42000
1.397	15.011	2.34450	2037.60001	.18980	.19010	.19020	.18960	.18970	.18920	.18970	878.42000
1.398	17.234	2.36530	2037.60001	.18680	.18550	.18600	.18510	.18530	.18600	.18790	878.47000
1.398	21.527	2.34400	2038.39999	.18650	.18320	.18350	.18310	.18340	.18330	.18650	878.64000
GRADIENT		.00036	-.00000	.06014	.00031	.00024	.00021	.00029	.00043	.00010	-.08475

TABULATED DATA - 04161 (ARC 11-97-87-094)
 ARC 11-97-87-094 04161 ORBITER

(BETR32) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA =
 AILROM =
 5.000 ELEVON = .000
 7.500 BBFLAP = -7.170

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.597	.111	5.37160	2607.78801	.74800	.74858	.74838	.74820	.74850	.74810	.78350	511.42000
.597	4.213	5.38950	2607.00000	.74786	.74858	.74858	.74860	.74820	.74840	.76840	510.83000
.596	8.297	5.40680	2605.60001	.74850	.74890	.74910	.74980	.74980	.74850	.76070	509.64000
.596	8.388	5.41240	2606.29999	.74860	.74840	.74938	.74850	.74870	.74850	.75500	509.55000
.596	10.511	5.40820	2606.29999	.74870	.74900	.75020	.74980	.74990	.75000	.75240	510.24000
.596	12.636	5.40920	2606.29999	.74900	.75010	.75040	.75020	.74980	.74940	.75100	508.65000
.596	14.758	5.40100	2606.29999	.74920	.74750	.74900	.74880	.74870	.75050	.75150	510.24000
.596	16.867	5.39790	2606.29999	.74790	.74770	.74810	.74820	.74850	.74920	.75030	509.65000
.596	21.082	5.40620	2607.00000	.74280	.74370	.74140	.74340	.74180	.74210	.74840	510.25000
	GRADIENT	.00680	-.17054	-.00005	.00002	.00807	.00010	-.00807	.00007	-.00371	-.14382

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.902	.065	5.40050	2138.10001	.52300	.52190	.52110	.52030	.51930	.51910	.50990	718.31000
.901	4.273	5.42290	2136.70001	.52030	.51760	.52110	.52210	.52160	.52238	.51510	717.34000
.899	6.402	5.42850	2137.39999	.52030	.52040	.52260	.52200	.52290	.52330	.51880	716.14000
.904	8.530	5.43050	2136.70001	.51690	.51880	.51830	.51490	.51590	.51750	.51750	719.41000
.900	10.678	5.41350	2137.39999	.51610	.51570	.51470	.51480	.51420	.51430	.51620	716.58000
.902	12.809	5.42950	2138.10001	.51430	.51260	.51120	.50980	.50880	.51100	.51390	718.72000
.903	14.946	5.43360	2135.20001	.50690	.50880	.51000	.50800	.50770	.50440	.50970	718.45000
.897	17.034	5.45790	2138.10001	.50140	.49750	.49600	.49690	.49800	.50050	.50540	714.48000
.902	21.387	5.47840	2138.10001	.47870	.47840	.47880	.48010	.48020	.47770	.49370	718.72000
	GRADIENT	.00532	-.33270	-.00064	-.00088	.00808	.00843	.00853	.00076	.00124	-.23082

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.197	.077	5.39410	2017.80000	.28010	.27988	.27800	.27890	.27720	.27640	.27320	837.87000
1.198	4.298	5.42780	2017.10001	.27980	.27930	.27930	.27820	.27850	.27810	.27540	837.88000
1.191	8.509	5.42830	2018.50000	.27780	.27530	.27680	.27510	.27510	.27520	.27510	838.24000
1.196	10.782	5.40960	2017.80000	.27650	.27590	.27520	.27530	.27440	.27540	.27530	837.67000
1.196	12.933	5.42030	2019.30000	.27410	.27368	.27340	.27350	.27350	.27270	.27440	838.22000
1.195	15.097	5.43510	2017.80000	.27430	.27390	.27469	.27380	.27500	.27380	.27450	837.27000
1.195	17.255	5.47000	2018.50000	.27340	.27300	.27320	.27280	.27200	.27040	.27300	838.02000
1.200	21.581	5.49310	2022.10001	.25960	.25910	.25910	.25790	.25710	.25670	.26500	839.33000
1.196	GRADIENT	.00796	-.16586	-.00026	-.00019	.00831	.00031	.00031	.00040	.00052	.00237

(BE7R32) (02 AUG 76)

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = 5.000 ELEVON = .000
AILRON = 7.590 BOFLAP = -7.178

PARAMETRIC DATA

RUN NO. 2164 0 RML = 4.23 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
1.397	.051	5.42770	2033.39999	.18860	.18870	.18880	.18890	.18900	.18910	.18920	876.63000
1.400	4.247	5.43220	2034.10001	.18980	.18990	.19000	.19010	.19020	.19030	.19040	876.98000
1.397	8.531	5.43630	2034.10001	.18870	.18880	.18890	.18900	.18910	.18920	.18930	876.93000
1.397	10.703	5.44240	2036.20000	.18940	.18950	.18960	.18970	.18980	.18990	.19000	877.83000
1.395	12.845	5.44850	2035.50000	.18870	.18880	.18890	.18900	.18910	.18920	.18930	877.50000
1.395	14.997	5.45460	2036.89999	.18750	.18760	.18770	.18780	.18790	.18800	.18810	878.16000
1.396	17.160	5.46070	2036.20000	.18590	.18600	.18610	.18620	.18630	.18640	.18650	879.81000
1.396	21.481	5.46680	2038.10001	.18400	.18410	.18420	.18430	.18440	.18450	.18460	879.09000
GRADIENT		.00017	.18685	.00029	.00019	.00024	.00017	.00017	.00017	.00017	.08342

ARC 11-97-87-094 04161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = 10.000 BOFLAP = -7.178

PARAMETRIC DATA

RUN NO. 2524 0 RML = 4.24 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
1.395	.147	-4.90560	2618.89999	.75020	.75030	.75040	.75050	.75060	.75070	.75080	511.60000
1.397	4.211	-4.91050	2618.29999	.74960	.74970	.74980	.74990	.75000	.75010	.75020	512.79000
1.397	8.375	-4.89780	2619.70001	.74800	.74810	.74820	.74830	.74840	.74850	.74860	513.98000
1.397	10.484	-4.88280	2619.70001	.74730	.74740	.74750	.74760	.74770	.74780	.74790	513.98000
1.397	12.536	-4.85080	2619.70001	.74590	.74600	.74610	.74620	.74630	.74640	.74650	513.40000
1.396	14.690	-4.84570	2619.70001	.74340	.74350	.74360	.74370	.74380	.74390	.74400	513.40000
1.396	16.780	-4.86340	2619.70001	.73560	.73570	.73580	.73590	.73600	.73610	.73620	513.98000
1.397	21.023	-4.88240	2619.70001	.73490	.73500	.73510	.73520	.73530	.73540	.73550	513.98000
GRADIENT		.00123	.34450	.00030	.00030	.00020	.00022	.00015	.00015	.00015	.29281

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(BETR33) (02 AUG 75)

TABULATED DATA - 0A164 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SPEF = 2830.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

BETA =
ALFON =

-5.000 ELEVON = .000
10.000 BDFLAP = -7.870

PARAMETRIC DATA

RUN NO. 231/ 0 RNL = 4.25 GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.196	.1101	-4.96370	2008.60001	.27910	.27910	.27910	.27910	.27910	.28050	.22870	834.76000
1.197	4.208	-4.96040	2065.80000	.27990	.28090	.27940	.27940	.27970	.28050	.25170	832.87000
1.198	8.582	-4.93370	2007.20000	.27440	.27440	.27440	.27440	.27450	.27480	.28130	833.81000
1.199	10.721	-4.93280	2010.10001	.26900	.27000	.26820	.26810	.26800	.26860	.28440	834.92000
1.197	12.881	-4.91530	2009.39999	.26820	.26710	.26680	.26750	.26680	.26630	.28530	834.35000
1.195	15.057	-4.94290	2010.10001	.26120	.26070	.26190	.26220	.26130	.26080	.26300	834.33000
1.196	17.216	-4.93760	2007.89998	.25970	.25820	.25790	.25780	.25750	.25670	.26310	833.46000
1.196	21.538	-4.95700	2008.39999	.26220	.26270	.26190	.26150	.26090	.26050	.26060	834.19000
1.196	GRADIENT	.00079	-57105	.00019	.00043	.00005	.00012	.00005	.00002	.00551	-45296

RUN NO. 230/ 0 RNL = 4.23 GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.398	.073	-4.98350	2057.33899	.18620	.18610	.18640	.18580	.18620	.18660	.18670	887.01000
1.399	4.231	-4.97090	2056.70001	.18800	.18780	.18730	.18730	.18780	.18730	.18720	886.73000
1.396	8.495	-4.94630	2058.20001	.18710	.18750	.18810	.18760	.18730	.18700	.18720	887.26000
1.395	10.645	-4.93720	2057.39999	.18620	.18610	.18670	.18630	.18640	.18600	.18640	886.96000
1.397	12.794	-4.92180	2058.20001	.18550	.18480	.18520	.18540	.18490	.18460	.18580	887.28000
1.397	14.968	-4.91220	2058.20001	.18150	.18170	.18200	.18180	.18170	.18220	.18420	887.28000
1.396	17.119	-4.94220	2058.20001	.18050	.18080	.18080	.18140	.16140	.16150	.18280	887.26000
1.396	21.463	-4.94870	2058.60001	.18230	.18220	.18260	.18220	.18280	.18300	.18270	887.68000
1.396	GRADIENT	.00305	-16934	.00043	.00041	.00022	.00035	.00038	.00017	.00012	-105734

TABULATED DATA - 0A181 (ARC 11-87-87-084)
 ARC 11-87-87-084 0A181 ORBITER

(BETR34) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRRON = 10.000 BDFLAP = -7.170

RUN NO. 253/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.577	.088	-1.81290	2619.00000	.74910	.74980	.74940	.74940	.74980	.74930	.74980	513.98000
.597	4.190	-1.81610	2618.29999	.74980	.74980	.74980	.74980	.74980	.74980	.74980	513.95000
.596	8.349	-1.81500	2619.00000	.74900	.74930	.74900	.74900	.74920	.74930	.74930	513.95000
.597	10.460	-1.80980	2619.00000	.75040	.75030	.75020	.75040	.74950	.74980	.74980	513.96000
.599	12.586	-1.79610	2619.00000	.74980	.74930	.75010	.74940	.74938	.74970	.74900	513.96000
.599	14.564	-1.77060	2619.00000	.74730	.74710	.74660	.74710	.74620	.74640	.74620	514.95000
.598	16.798	-1.83650	2619.00000	.74210	.74190	.74340	.74310	.74270	.74250	.74250	515.13000
.596	21.071	-1.83110	2619.70001	.73380	.73460	.73460	.73460	.73500	.73470	.73980	512.23000
	GRADIENT	.00678	.17864	.00017	.00005	.00017	.00012	.00005	.00007	.00049	.00243

RUN NO. 250/ 0 RM/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.901	.084	-1.85760	2116.89999	.52220	.52140	.52140	.52140	.52040	.52030	.54610	710.49000
.901	4.247	-1.83190	2116.20001	.52310	.52290	.52330	.52460	.52370	.52620	.51480	710.00000
.899	6.368	-1.82800	2116.89999	.52120	.52190	.52220	.52390	.52400	.52340	.51710	709.22000
.899	8.488	-1.83480	2116.89999	.52050	.51980	.52040	.52100	.52440	.52138	.51920	709.22000
.900	10.622	-1.82270	2117.60001	.51430	.51560	.51680	.51700	.51780	.51730	.51780	710.14000
.900	12.750	-1.81250	2117.60001	.51240	.51280	.51260	.51180	.51220	.51200	.51680	710.14000
.903	14.971	-1.82510	2117.60001	.50210	.50400	.50440	.50520	.50410	.50460	.51120	709.71000
.903	17.056	-1.88300	2117.60001	.49750	.49870	.49880	.49890	.49830	.49720	.50520	709.71000
.903	21.349	-1.86310	2115.39999	.47200	.47430	.47520	.47590	.47760	.47390	.49170	709.10000
	GRADIENT	.00617	.16813	.00022	.00036	.00046	.00082	.00079	.00142	.00209	.11769

RUN NO. 242/ 0 RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.983	.062	-1.82560	2065.89999	.42710	.42770	.42870	.43000	.42990	.42910	.42020	751.26000
.979	4.275	-1.83230	2063.79999	.42390	.43840	.42850	.42690	.42750	.43070	.42540	749.52000
.980	8.553	-1.81140	2063.10001	.42350	.42600	.42480	.42650	.42660	.42500	.42460	749.80000
.979	10.710	-1.79450	2063.10001	.41720	.41740	.41940	.41760	.41900	.42110	.42240	749.43000
.977	12.848	-1.79250	2063.79999	.41600	.41310	.41540	.41520	.41490	.41930	.42000	749.43000
.979	14.989	-1.82140	2068.79999	.40440	.40540	.40890	.41060	.40670	.40480	.41220	751.24000
.977	17.183	-1.87580	2063.79999	.40130	.40260	.40160	.40210	.39990	.39830	.40690	749.43000
.982	21.495	-1.87580	2063.99999	.38800	.38500	.38690	.38660	.39730	.39800	.39790	752.00000
	GRADIENT	.00159	.49335	.00066	.00064	.00005	.00074	.00057	.00038	.00123	.41254

(BE7R34) : 02 AUG 78)

REFERENCE DATA

5REF	=	2690.0000	SQ.FT.	YMAP	=	1075.6800	IN.	X0
REF	=	474.8000	IN.	YMAP	=	.0000	IN.	Y0
3REF	=	935.6800	IN.	ZMAP	=	375.0000	IN.	Z0
SCALE	=		.0300					

BETA	=	-2.000	ELEVON	=	.000
AILRON	=	10.000	BOFLAP	=	-7.170

PARAMETRIC DATA

FLIN NO.	239/ 0	BN/L = 4.23	GRADIENT INTERVAL =	-5.00/	5.00
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MACH	ALPHA	BETA	PF	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSCJ
1.099	0.085	-1.88780	2003.70000	33740	33810	33790	33780	33740	33740	32890	729.37000
1.099	4.276	-1.84350	2004.39999	33580	33550	33600	33670	33510	33580	33190	794.50000
1.098	8.564	-1.82420	2005.10001	33130	33140	33140	33180	33170	33160	33180	794.63000
1.097	10.729	-1.80080	2003.70000	32980	33030	33050	33060	32980	33030	33160	793.53000
1.098	12.880	-1.79840	2005.10001	32650	32690	32690	32640	32660	32650	32920	794.63000
1.098	15.032	-1.84230	2003.70000	31980	32000	32030	32020	32050	32050	32500	793.25000
1.097	17.257	-1.89150	2005.80000	31580	31580	31580	31490	31560	31580	32100	794.49000
1.099	21.575	-1.86600	2003.00000	30920	30950	30950	30930	30940	31050	31650	793.96000
GRADIENT	0.0341	-0.0038	16704	-0.0038	-0.0062	-0.0045	-0.0050	-0.0055	-0.0038	-0.0072	0.03102

RTIN NO.	232/ 0	RN/L = 4.26	GRADIENT INTERVAL = -5.00%	5.00
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MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF3
1.193	.052	-1.82950	2007.89999	.27880	.27840	.27830	.27900	.27760	.27820	.27270	834.39000
1.200	.4.260	-1.83550	2007.89999	.27630	.27650	.27590	.27660	.27730	.27670	.27410	834.58000
1.196	8.550	-1.81930	2009.39999	.27680	.27580	.27550	.27490	.27570	.27520	.27400	834.15000
1.198	10.720	-1.81500	2008.60001	.27350	.27340	.27400	.27420	.27410	.27400	.27370	834.37000
1.195	12.874	-1.80310	2007.89999	.26900	.26870	.26860	.26770	.26810	.26880	.27180	833.00000
1.200	15.023	-1.84110	2008.60001	.26150	.26140	.26160	.26150	.26120	.26120	.26730	834.95000
1.193	17.240	-1.89720	2007.89999	.25680	.25760	.25680	.25700	.25720	.25720	.26290	832.60000
1.193	21.576	-1.86320	2011.50000	.25700	.25620	.25650	.25650	.25740	.25740	.26030	835.87000
GRADIENT		-0.0169	-0.0001	-0.0059	-0.0045	-0.0057	-0.0057	-0.0007	-0.00036	-0.00033	834.4515

PMI NO	329/ 0	BN/1 =	4.23	GRADIENT INTERVAL =	-5.00/ 5.00
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MACH	ALPHA	BETA	PT	PT1/PT	T2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.400	0.045	-1.86730	2050.39999	.18930	.18890	.18930	.18880	.18910	.18950	.18520	894.02000
1.400	4.213	-1.91110	2048.29999	.18900	.18900	.18900	.18870	.18870	.18690	.18710	893.06300
1.398	8.482	-1.82470	2050.39999	.18900	.18900	.18910	.18950	.18950	.18320	.18930	893.95000
1.398	10.638	-1.83030	2048.29999	.18950	.18920	.18830	.18840	.18990	.18940	.18850	893.04000
1.399	12.783	-1.81370	2047.50000	.18480	.18520	.18520	.18470	.18520	.18490	.19690	892.76000
1.399	14.927	-1.85730	2048.29999	.18120	.18130	.18130	.18180	.18160	.18150	.16470	893.06000
1.400	17.142	-1.91710	2047.50000	.17920	.17970	.17980	.18030	.17980	.17970	.18250	892.78000
1.399	21.488	-1.87730	2049.50000	.18090	.18050	.18030	.18090	.18090	.18110	.18190	893.37000
GRADIENT		-0.1051	-50400	-0.0007	.00002	.00002	-0.00062	-0.00010	-0.00014	.00022	-0.22551

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PARAMETRIC DATA

BETA	=	.000	ELEVON	=	.000
ALHON	=	10.000	BOFLAP	=	-7.170

Run No.	Run/L	Run/L	Gradient	Interval	Interval
254	0	4.26	-5.00%	5.00%	

TIME: 10.00	DATE: 01-01-00	DAY: 1	GRADIENT INTERVAL: -5.00/ 5.00
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[illegible]

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1P5/1
.980	.052	.23560	2062.39999	.42920	.43020	.43030	.42980	.43080	.42940	.42990	749.35000
.979	4.278	.22810	2064.50000	.42870	.43000	.43070	.43070	.42930	.42970	.42980	749.98800
.980	6.404	.23920	2064.50000	.43140	.43020	.43170	.43080	.43020	.42950	.42950	750.35800
.978	8.558	.24730	2063.10001	.42540	.42450	.42450	.42636	.42620	.42720	.42590	748.69000
.978	10.719	.24190	2068.10001	.41860	.42010	.42130	.41910	.41930	.41690	.42178	750.41000
.980	12.857	.22600	2064.50000	.41600	.41270	.41280	.41478	.41260	.41300	.41850	750.35000
.976	15.008	.22650	2062.39999	.41230	.41350	.41420	.41030	.41120	.41060	.41640	746.73000
.980	17.168	.23200	2063.79999	.39810	.39970	.40200	.40190	.39940	.39870	.40810	749.89000
.979	21.446	.21030	2065.20001	.38670	.39050	.38720	.38780	.38758	.38750	.39920	750.08000
.979	25.621	.19000	2065.20001	.36800	.36900	.36870	.36940	.37040	.36920	.38670	750.06000
CRASH	CRASH	- .00177	.49886	- .00012	- .00005	.00080	.00021	- .00059	.00007	.00071	.14986

(BE7R351 (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = 10.000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0080 IN. YO
BREF = 936.6808 IN. ZMRP = 375.0080 IN. ZO
SCALE = .0300

RUN NO. 238/ 0 RMYL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
1.098	.078	.22030	2803.70080	.33710	.33740	.33698	.33740	.33740	.33770	.33160	794.09000
1.099	4.278	.22030	2005.10801	.33610	.33610	.33610	.33610	.33610	.33680	.33260	794.91000
1.097	6.408	.23360	2004.39999	.33570	.33560	.33560	.33558	.33530	.33530	.33410	793.66000
1.099	8.569	.24950	2005.10001	.33450	.33450	.33450	.33450	.33490	.33440	.33450	794.91000
1.098	10.730	.24670	2003.70000	.33290	.33270	.33300	.33300	.33300	.33320	.33460	793.67000
1.097	12.883	.24110	2005.80000	.32810	.32820	.32840	.32840	.32860	.32890	.33450	794.91000
1.099	15.061	.24310	2005.10001	.32420	.32430	.32430	.32430	.32430	.32430	.32430	793.66000
1.097	17.232	.23660	2004.39999	.32140	.32140	.32140	.32140	.32140	.32140	.32140	794.91000
1.098	21.592	.22730	2003.70000	.31060	.31060	.31060	.31060	.31060	.31060	.31060	794.91000
1.099	25.732	.22800	2003.70000	.30020	.30020	.30020	.30020	.30020	.29990	.31050	794.91000
	GRADIENT	.00146	.33109	-.00024	-.00031	-.00019	-.00024	-.00019	-.00040	.00024	.19389

RUN NO. 233/ 0 RMYL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
1.199	.047	.22580	2007.89999	.27820	.27820	.27950	.27860	.27900	.27860	.27290	834.19000
1.200	4.285	.23500	2007.50000	.27550	.27550	.27550	.27550	.27550	.27550	.27390	834.40000
1.200	6.408	.24050	2006.50000	.27660	.27660	.27660	.27660	.27660	.27660	.27420	834.22000
1.192	8.569	.24350	2007.20000	.27840	.27770	.27718	.27830	.27830	.27840	.27640	832.02000
1.197	10.734	.24330	2009.39999	.27660	.27630	.27630	.27630	.27630	.27630	.27620	834.35000
1.197	12.890	.24030	2007.89999	.27080	.27110	.27120	.27150	.27150	.27260	.27440	833.80000
1.196	15.051	.24260	2009.39999	.26360	.26360	.26360	.26360	.26360	.26360	.26970	833.95000
1.198	17.219	.23730	2008.50001	.25630	.25730	.25900	.25830	.25830	.25770	.26430	834.37000
1.199	21.521	.22380	2011.50000	.25650	.25650	.25710	.25730	.25730	.25650	.26050	835.67000
1.199	25.740	.22720	2007.89999	.24760	.24680	.24630	.24610	.24620	.24730	.25520	834.39000
1.193	GRADIENT	.00218	-.16594	-.00064	-.00062	-.00107	-.00085	-.00076	-.00076	.00024	.04979

RUN NO. 228/ 0 RMYL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
1.402	.008	.21020	2028.50000	.18790	.18840	.18780	.18780	.18740	.18780	.18280	874.58000
1.400	4.208	.20570	2028.50000	.18910	.18910	.18910	.18910	.18910	.18910	.18880	874.95000
1.399	6.327	.22050	2028.50000	.18950	.18950	.18950	.18950	.18950	.18950	.18950	874.52000
1.397	8.485	.23980	2029.20000	.19030	.19040	.19050	.19050	.19050	.19050	.18980	874.78000
1.396	10.643	.23370	2029.20000	.19100	.19110	.19100	.19090	.19050	.19070	.19030	874.76000
1.397	12.782	.21750	2029.20000	.18730	.18780	.18730	.18730	.18730	.18760	.18920	874.78000
1.398	14.942	.25670	2029.20000	.18470	.18470	.18470	.18470	.18470	.18470	.18690	874.83000
1.399	17.106	.24070	2029.20000	.18350	.18350	.18350	.18350	.18350	.18350	.18550	874.83000
1.399	21.419	.23680	2029.20000	.18050	.18050	.18050	.18050	.18050	.18070	.18330	875.34000
1.395	25.672	.23370	2029.20000	.17710	.17580	.17620	.17600	.17580	.17600	.18090	874.84000
1.400	GRADIENT	-.00083	.00000	.00028	.00021	.00026	.00045	.00050	.00040	.00024	-.00714

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETR361 (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = 10.000 BDFLAP = -7.170

RUN NO. 2554 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.597	.095	2.28910	2618.29999	.74850	.74830	.74830	.74840	.74834	.74840	.74360	512.79000
.597	4.186	2.33120	2618.29999	.74920	.74970	.74970	.74960	.74880	.74930	.74560	512.79000
.596	8.366	2.34230	2618.29999	.74960	.75040	.75040	.75030	.74890	.74980	.74680	511.62000
.598	10.472	2.35710	2595.00000	.74700	.74780	.74710	.74750	.74630	.74750	.75090	511.77000
.597	12.621	2.37840	2592.89999	.74950	.74900	.74980	.74860	.74980	.74850	.75030	507.66000
.595	14.782	2.32700	2593.60001	.74840	.74780	.74890	.74870	.74850	.74820	.74950	505.34000
.597	16.905	2.32700	2594.29999	.74740	.74630	.74630	.74480	.74550	.74810	.74340	508.27000
.598	21.115	2.31440	2595.00000	.73820	.73740	.73760	.73890	.73700	.73780	.74340	510.02000
GRADIENT		.01027	.00000	.00017	.00029	.00034	.00029	.00012	.00022	.00045	.00000

RUN NO. 2471 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.898	.030	2.31610	2413.29999	.52270	.52260	.52110	.52190	.52150	.52170	.51280	707.19000
.898	4.248	2.33010	2413.29999	.52340	.52320	.52460	.52490	.52460	.52380	.51680	707.19000
.897	6.375	2.33680	2414.00000	.52740	.52570	.52700	.52350	.52250	.52310	.52000	706.39000
.898	8.499	2.33340	2413.29999	.52330	.52270	.52090	.52080	.52210	.52240	.52090	705.03000
.897	10.635	2.33660	2414.00000	.52810	.52800	.51900	.52128	.52050	.52630	.52060	706.39000
.900	12.808	2.32330	2414.00000	.51340	.50780	.51180	.51040	.51020	.51200	.51690	708.55000
.898	14.963	2.33370	2414.00000	.50680	.50780	.50510	.50540	.50750	.50790	.51250	705.82000
.897	17.138	2.35910	2413.29999	.49990	.49540	.49940	.49880	.49710	.49740	.50590	706.53000
.900	21.397	2.32550	2415.39999	.46370	.4610	.46460	.46530	.46650	.46660	.48920	710.76000
GRADIENT		.00332	.00000	.00017	.00014	.00083	.00071	.00073	.00050	.00097	.00000

RUN NO. 2444 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.980	.062	2.30100	2065.20001	.42990	.42770	.42770	.42790	.42540	.42590	.41510	750.43000
.978	4.283	2.34150	2064.50000	.43180	.42940	.43060	.42890	.43110	.42810	.42190	749.23000
.987	8.576	2.34520	2066.60001	.42630	.42480	.42450	.42680	.42300	.42080	.42160	750.98000
.977	10.753	2.33640	2062.39999	.42620	.42670	.42340	.42590	.42240	.42260	.42260	747.48000
.976	12.901	2.31000	2065.20001	.41820	.41340	.41330	.41660	.41180	.40920	.41870	748.28000
.979	15.056	2.34640	2065.20001	.41260	.40860	.40730	.40920	.41220	.40920	.41460	749.69000
.979	17.270	2.36270	2063.10001	.40700	.40750	.40960	.41050	.40840	.40440	.41070	749.06000
.979	21.527	2.32820	2063.79999	.38830	.38870	.38910	.38790	.38790	.38820	.40090	749.52000
GRADIENT		.00959	.16597	.00045	.00040	.00069	.00024	.00135	.00135	.00161	.28425

TABULATED DATA - OARL (ARC 11-97-87-084)

ARC 11-97-87-084 OARL ORBITER

(BETR38) 1 02 AUG 78)

REFERENCE DATA

SREF = 2690.0080 SQ.FT. XMRP = 1078.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 938.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVOM = .000
AULROM = 10.008 BDFLAP = -7.170

RUN NO. 237/ 0 RVL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.097	.045	2.32820	2003.00000	.33620	.33670	.33720	.33770	.33820	.33870	.33920	793.12000
1.099	4.283	2.31060	2003.70000	.33450	.33500	.33550	.33600	.33650	.33700	.33750	794.37000
1.099	8.565	2.30100	2003.00000	.33330	.33380	.33430	.33480	.33530	.33580	.33630	793.68000
1.099	10.751	2.32550	2005.10000	.33068	.33068	.33068	.33068	.33068	.33068	.33068	794.51000
1.099	12.926	2.31480	2005.80000	.32760	.32760	.32760	.32760	.32760	.32760	.32760	795.04000
1.096	15.117	2.36570	2004.39999	.32640	.32640	.32640	.32640	.32640	.32640	.32640	793.10000
1.097	17.338	2.36150	2004.39998	.32170	.32170	.32170	.32170	.32170	.32170	.32170	793.94000
1.097	21.622	2.34450	2005.10001	.31030	.31030	.31030	.31030	.31030	.31030	.31030	795.18000
1.100	GRADIENT	-.06415	.15516	-.00040	-.00028	-.00028	-.00040	-.00040	-.00040	-.00057	.29494

RUN NO. 234/ 0 RVL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.198	.050	2.30660	2008.60011	.27800	.27830	.27730	.27840	.27700	.27770	.27680	834.37000
1.198	4.270	2.32910	2007.20000	.27590	.27570	.27570	.27440	.27458	.27480	.27210	833.81000
1.195	8.568	2.34410	2008.60001	.27740	.27720	.27750	.27540	.27570	.27570	.27350	833.38000
1.196	10.751	2.33970	2008.60001	.27300	.27360	.27410	.27430	.27430	.27430	.27410	833.78800
1.196	12.933	2.31970	2008.60001	.27230	.27228	.27250	.27250	.27330	.27230	.27370	833.58000
1.196	15.106	2.37410	2008.60001	.26720	.26640	.26600	.26550	.26710	.26710	.26810	833.97000
1.197	17.328	2.38290	2006.60001	.26530	.26570	.26530	.26510	.26510	.26510	.26590	835.51000
1.200	21.612	2.36270	2010.10001	.26260	.26270	.26380	.26340	.26320	.26250	.00031	-.13302
	GRADIENT	.00677	-.33253	-.00050	-.00062	-.00038	-.00095	-.00059	-.00069		

RUN NO. 227/ 0 RVL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.402	.010	2.30820	2028.50000	.18650	.18660	.18700	.18680	.18700	.18650	.19140	874.58000
1.401	4.214	2.32120	2027.70000	.18790	.18770	.18710	.18780	.18770	.18750	.19010	874.26000
1.397	8.508	2.33320	2027.70000	.18880	.18760	.18740	.18740	.18790	.18960	.18960	874.18000
1.396	10.663	2.33270	2029.20000	.18650	.18650	.18650	.18620	.18610	.18600	.18660	874.78000
1.397	12.833	2.32870	2028.58000	.18500	.18500	.18520	.18560	.18510	.18470	.18770	874.49000
1.398	15.008	2.35550	2029.20000	.18400	.18430	.18420	.18460	.18480	.18440	.18700	874.81000
1.398	17.223	2.37950	2028.50000	.18480	.18490	.18530	.18500	.18480	.18550	.18650	874.55000
1.400	21.517	2.34090	2031.30000	.18260	.18260	.18210	.18240	.18200	.18210	.18500	875.69000
1.397	GRADIENT	.00309	-.19823	.00026	.00026	.00026	.00024	.00017	.00021	-.00031	-.07510

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BE7R57) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.8800 IN. ZMRP = 373.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .006
A11ROW = -7.170
5.000 ELEVON = .006
10.000 BOFLAP = -7.170

RUN NO. 256/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.598	.108	5.38070	2553.60081	.74738	.74770	.74800	.74830	.74860	.74890	.74920	509.42000
.598	4.211	5.40400	2593.60081	.74760	.74790	.74820	.74850	.74880	.74910	.74940	509.42000
.598	8.389	5.41850	2594.29999	.74700	.74730	.74760	.74790	.74820	.74850	.74880	509.43000
.598	10.588	5.41650	2595.00000	.74760	.74790	.74820	.74850	.74880	.74910	.74940	510.02000
.597	12.631	5.41360	2594.29999	.74760	.74790	.74820	.74850	.74880	.74910	.74940	508.85000
.597	14.753	5.41020	2595.00000	.74760	.74790	.74820	.74850	.74880	.74910	.74940	509.44000
.597	16.861	5.40900	2594.29999	.74760	.74790	.74820	.74850	.74880	.74910	.74940	508.27000
.597	21.074	5.41790	2595.00000	.74760	.74790	.74820	.74850	.74880	.74910	.74940	511.19000
.599	GRADIENT	.00568	.00000	.00019	.00022	.00022	.00012	.00097	.00905	.00002	.00000

RUN NO. 246/ 0

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.900	.059	5.40950	2116.20001	.51750	.51750	.51750	.51830	.51870	.51770	.45280	709.16000
.899	4.282	5.43190	2114.70801	.51710	.51860	.52020	.51920	.52050	.52050	.48220	708.18000
.901	6.336	5.42810	2118.29999	.51600	.51750	.51780	.51780	.51660	.51660	.49520	710.62000
.899	8.522	5.43670	2116.89999	.52010	.52310	.52010	.51790	.51690	.51690	.58580	709.22000
.899	10.674	5.42250	2116.89999	.51840	.51850	.51750	.51650	.51490	.51310	.50840	709.22000
.898	12.799	5.42570	2116.20001	.51840	.51850	.51420	.51310	.51240	.51410	.51120	707.43000
.900	14.943	5.43870	2118.29999	.50860	.50760	.50550	.50380	.50310	.50680	.50810	710.20000
.898	17.078	5.45120	2116.20001	.49350	.49740	.50000	.49940	.49800	.50010	.50920	707.43000
.899	GRADIENT	.00747	.36586	.00010	.00026	.00067	.00021	.00043	.00067	.00669	.25314

RUN NO. 245/ 0

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.979	.063	5.40950	2064.50000	.42850	.42610	.42770	.42820	.42720	.42800	.41940	749.98000
.981	4.295	5.42730	2063.79999	.42950	.43110	.43090	.42980	.42810	.42810	.42370	750.63000
.976	8.581	5.42550	2063.10001	.43090	.43290	.43280	.43220	.43520	.44120	.43210	747.19000
.978	10.755	5.40110	2068.10801	.42900	.42780	.43060	.42868	.43190	.42600	.42850	750.41000
.981	12.907	5.40970	2063.79999	.41680	.41490	.41490	.41780	.41770	.41820	.42470	751.00000
.982	15.053	5.41750	2083.39999	.41550	.41260	.40990	.40950	.41180	.41450	.41960	752.55000
.979	17.285	5.45630	2064.50000	.40890	.40650	.40690	.40900	.40960	.41000	.41440	749.98000
.983	GRADIENT	.08425	.16541	.00024	.00118	.00076	.00038	.00045	.00002	.00102	.15360

(BETR37) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = 10.000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.3000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8900 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 236/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.100	.071	5.39330	2804.39999	.33070	.33029	.32950	.33080	.33050	.33140	.29720	795.33000
1.100	4.304	5.43540	2004.39999	.33150	.33160	.33220	.33170	.33090	.33150	.31220	795.05000
1.097	8.603	5.43090	2805.10001	.32820	.32860	.32840	.32800	.32840	.32750	.31880	794.07000
1.098	10.782	5.41110	2805.80002	.32610	.32660	.32620	.32730	.32740	.32780	.32190	794.76000
1.098	12.931	5.41090	2006.50000	.32770	.32750	.32780	.32910	.32850	.32460	.32460	795.17000
1.098	15.088	5.42770	2004.39999	.32920	.32920	.32840	.32900	.32880	.32800	.32510	793.10000
1.095	17.257	5.46370	2005.80000	.32640	.32520	.32660	.32650	.32710	.32650	.32580	795.04000
1.099	21.569	5.48590	2805.10001	.30570	.30520	.30640	.30620	.30650	.30620	.31740	795.46000
1.100	GRADIENT	.00000	.00000	.00019	.00033	.00064	.00021	.00009	.00002	.00354	-.06614

RUN NO. 238/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.197	.076	5.43980	2007.20000	.27630	.27670	.27620	.27610	.27650	.27710	.27400	833.42000
1.198	4.288	5.42440	2807.20000	.27590	.27670	.27590	.27630	.27580	.27670	.27580	833.81000
1.194	8.600	5.43550	2008.60001	.27830	.27840	.27830	.27800	.27860	.27720	.27600	833.18000
1.198	10.777	5.42010	2009.39999	.27450	.27480	.27400	.27350	.27310	.27410	.27490	834.55000
1.196	12.924	5.43270	2808.60001	.27520	.27380	.27320	.27260	.27450	.27360	.27450	833.58000
1.196	15.089	5.44150	2010.10001	.27130	.27190	.27300	.27350	.27260	.27380	.27390	834.33000
1.197	17.249	5.48020	2008.60001	.26880	.26890	.26908	.26890	.26660	.26770	.27130	833.97000
1.197	21.568	5.58130	2006.50000	.25840	.25020	.26010	.26080	.26060	.25850	.26610	833.24000
1.197	GRADIENT	-.00138	.00000	-.00009	.00000	-.00007	.00005	-.00017	-.00009	.00043	.09260

RUN NO. 226/ 0 RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.400	.048	5.43790	2828.50000	.18720	.18700	.18700	.18660	.18660	.18650	.18580	874.95000
1.400	4.241	5.44000	2026.30000	.18810	.18890	.18810	.18840	.18850	.18650	.18650	873.62000
1.396	8.520	5.43910	2028.50000	.18690	.18660	.18660	.18680	.18690	.18670	.18670	874.47000
1.397	10.695	5.40870	2028.50000	.18570	.18560	.18570	.18710	.18710	.18740	.20020	874.49000
1.397	12.857	5.44610	2829.20000	.18750	.18650	.18630	.18680	.18670	.18700	.24970	874.78000
1.398	14.993	5.43730	2028.50000	.18750	.18790	.18740	.18760	.18700	.18650	.21780	874.50000
1.397	17.154	5.47310	2029.20000	.18750	.18720	.18730	.18780	.18740	.18750	.20530	874.78000
1.399	21.474	5.50090	2029.80000	.18030	.17950	.18000	.18000	.18020	.18040	.19560	875.14000
1.399	GRADIENT	.00050	-.52461	.00021	.00045	.00025	.00038	.00043	.00048	-.05079	-.22177

(BETR381 (02 AUG 78)

PARAMETRIC DATA

 BETA = -8.000 ELEVON = .000
 ALIRON = .000 BOFLAP = -7.170

 TABULATED DATA - 0A161 (ARC 11-97-87-084)
 ARC 11-97-87-084 0A161 ORBITER + PROBES

REFERENCE DATA

 SREF = 2690 0000 SO.FT. XMRP = 1076.6980 IN. XO
 LREF = 474.0000 IN. YMRP = .0000 IN. YO
 BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RUN NO. 2634 0 RNL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.300	1.211	-7.94770	4128.29999	.94180	.94150	.92880	.92840	.92880	.99970	.99980	243.92000
.299	2.173	-7.89910	4128.29999	.94190	.94200	.92910	.92880	.92910	.99980	.99980	243.25000
.298	4.172	-7.89838	4128.29999	.94190	.94210	.92900	.92890	.92920	.99960	.99960	243.25000
.297	6.192	-7.89550	4128.29999	.94190	.94200	.92900	.92890	.92900	.99950	.99950	243.25000
.296	8.230	-7.88280	4128.29999	.94190	.94200	.92900	.92890	.92900	.99950	.99950	243.25000
.295	10.271	-7.87150	4128.29999	.94190	.94200	.92900	.92890	.92900	.99950	.99950	243.25000
.294	12.315	-7.85480	4128.29999	.94180	.94190	.92900	.92890	.92890	.99950	.99950	243.25000
.293	14.372	-7.83410	4128.29999	.94160	.94170	.92890	.92880	.92880	.99950	.99950	243.25000
.292	16.417	-7.80970	4128.29999	.94160	.94170	.92890	.92880	.92880	.99950	.99950	243.25000
.291	18.471	-7.78470	4128.29999	.94150	.94160	.92880	.92870	.92870	.99950	.99950	243.25000
.290	20.528	-7.75920	4128.29999	.94150	.94160	.92880	.92870	.92870	.99950	.99950	243.25000
.289	22.588	-7.73220	4128.29999	.94150	.94160	.92880	.92870	.92870	.99950	.99950	243.25000
.288	24.623	-7.69540	4128.29999	.94140	.94150	.92870	.92860	.92860	.99950	.99950	243.25000
.287	26.643	-7.65550	4128.29999	.94140	.94150	.92870	.92860	.92860	.99950	.99950	243.25000
.286	.01422	.00080	.00080	.00083	.00086	.00085	.00085	.00085	.00085	.00085	.19200

RUN NO. 2644 0 RNL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.587	1.221	-8.00730	2532.70001	1.32520	1.46930	.80310	1.31910	1.32430	.99690	.99710	497.23000
.586	2.205	-7.96530	2532.70001	1.18110	1.39300	.79710	1.18690	1.28020	.99750	.99750	494.90000
.585	4.240	-7.96370	2532.70001	1.07530	1.30840	.79180	1.08580	1.22250	.99770	.99800	495.48000
.584	8.303	-7.97560	2532.70001	.99880	1.22710	.78500	1.00910	1.16250	.99770	.99810	496.07000
.583	10.476	-7.96070	2532.70001	.94260	1.15190	.77940	.94990	1.16450	.99770	.99810	495.48000
.582	12.577	-7.95260	2532.70001	.90158	1.08620	.77550	.90520	1.05070	.99700	.99840	496.07000
.581	14.686	-7.93850	2533.39999	.87070	1.02920	.77170	.87020	1.00280	.99570	.99800	496.66000
.580	16.778	-7.93180	2533.39999	.84870	.98240	.76620	.84340	.96130	.99400	.99780	496.66000
.579	18.884	-7.92320	2532.70001	.85250	.94370	.76170	.82220	.92540	.99180	.99730	495.48000
.578	20.989	-7.93970	2533.39999	.82030	.91180	.75620	.80480	.89390	.98910	.99640	494.33000
.577	23.075	-7.93480	2533.39999	.81110	.88570	.75210	.78110	.86798	.98530	.99530	497.24000
.576	25.131	-7.93280	2533.39999	.80478	.86480	.74970	.78030	.84570	.97590	.99290	497.24000
.575	26.132	-7.90740	2532.70001	.79650	.84840	.74340	.77060	.82680	.96580	.98990	498.49000
.574	.00528	.00003	.00003	.00003	.00530	.73670	.76230	.81090	.95880	.98870	497.23000
.573							.07313	.03292	.00021	.00028	.44953

PARAMETRIC DATA

BETA = -5.008 ELEVON = .000
A FLON = -7.170

TABULATED DATA - 0A189 (ARC 11-97-87-09#)

ARC 11-97-87-09# 0A181 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0800 50.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8060 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 262# 0 RUN/L = 3.98 GRADIENT INTERVAL = -5.00# 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.299	1.154	-4.91090	4127.59998	.94190	.94170	.92960	.92900	.92930	.99980	.99990	242.59000
.299	2.137	-4.90100	4127.59998	.94200	.94190	.92970	.92910	.92930	.99980	.99990	243.24000
.299	4.135	-4.91230	4127.59998	.94210	.94200	.92980	.92920	.92930	.99970	.99980	242.58000
.299	6.165	-4.90710	4127.59998	.94210	.94200	.92980	.92920	.92930	.99970	.99980	242.59000
.299	8.203	-4.90440	4127.59998	.94200	.94200	.92970	.92920	.92930	.99950	.99960	242.59000
.299	10.263	-4.89420	4127.59998	.94210	.94210	.92970	.92920	.92930	.99950	.99960	241.91000
.299	12.320	-4.88770	4127.59998	.94210	.94210	.92970	.92920	.92930	.99950	.99960	241.91000
.299	14.368	-4.87190	4127.59998	.94210	.94210	.92970	.92920	.92930	.99950	.99960	242.58000
.299	16.404	-4.86400	4127.59998	.94190	.94210	.92960	.92920	.92930	.99950	.99960	242.58000
.299	18.473	-4.85400	4127.59998	.94190	.94210	.92960	.92920	.92930	.99950	.99960	242.58000
.299	20.538	-4.87620	4128.29899	.94190	.94190	.92960	.92920	.92930	.99950	.99960	242.59000
.299	22.584	-4.88070	4127.59998	.94190	.94190	.92960	.92920	.92930	.99950	.99960	242.59000
.299	24.637	-4.87430	4128.29899	.94170	.94160	.92760	.92850	.92900	.98730	.98740	243.92000
.300	25.638	-4.86300	4128.29899	.94170	.94160	.92760	.92850	.92900	.98660	.98670	243.92000
	GRADIENT	-.00123	-.00007	.00006	.00009	.00003	.00010	.00004	-.00004	.00004	-.04765

RUN NO. 268# 0 RUN/L = 4.22 GRADIENT INTERVAL = -5.00# 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.595	1.137	-4.93370	2530.60801	.79400	.81950	.75470	.76910	.78860	.99850	.99910	498.28000
.596	2.166	-4.93660	2533.29999	.79200	.81260	.75430	.75830	.78130	.99850	.99870	494.29000
.596	4.201	-4.93840	2532.00000	.79030	.80690	.75400	.75670	.77530	.99820	.99890	495.47000
.596	6.274	-4.93030	2532.00800	.78840	.80270	.75340	.75660	.77490	.99830	.99900	494.89000
.596	8.358	-4.92160	2532.00000	.78680	.79950	.75330	.75690	.76720	.99810	.99940	495.47000
.596	10.463	-4.90970	2532.70801	.78700	.79660	.75330	.75410	.76420	.99740	.99880	495.48000
.596	12.572	-4.89490	2533.39999	.78710	.79420	.75330	.75370	.76180	.99630	.99680	494.92000
.597	14.669	-4.87590	2533.39999	.78580	.79270	.75190	.75290	.75990	.99490	.99850	496.66000
.597	16.784	-4.87860	2533.39999	.78560	.79140	.75010	.75110	.75830	.99300	.99800	497.82000
.597	18.883	-4.90430	2533.39999	.78640	.79060	.74760	.74980	.75500	.98340	.99680	495.08000
.597	20.994	-4.90680	2533.39999	.78620	.78990	.74420	.74910	.75500	.98380	.99600	495.66900
.597	23.086	-4.90700	2533.39999	.78590	.78890	.74380	.74710	.75320	.97530	.98380	496.08000
.597	25.166	-4.89880	2533.39999	.78570	.78830	.73750	.74430	.75100	.97530	.98120	496.08000
.598	26.161	-4.87530	2533.39999	.78550	.78760	.73970	.74030	.74850	.95580	.98910	497.82000
	GRADIENT	-.00144	-.04106	-.00116	-.00393	-.00022	-.00106	-.00415	-.00014	-.00004	-.41530

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TABULATED DATA - 0A181 (ARC 11-97-87-084)

ARC 11-97-87-084 0A181 ORBITER + PROBES

(BE7R40) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.299	1.120	-1.86800	4128.29999	.94130	.94130	.92980	.92920	.92950	1.00020	.99990	243.25000
.300	2.103	-1.85388	4129.00000	.94158	.94120	.92940	.92890	.92920	.99980	1.00000	243.92000
.301	4.110	-1.84130	4129.00000	.94158	.94130	.92960	.92910	.92910	.99990	1.00000	243.92000
.302	6.141	-1.83440	4129.00000	.94158	.94130	.92960	.92900	.92900	1.00000	1.00000	243.92000
.303	8.178	-1.84120	4129.00000	.94150	.94140	.92980	.92920	.92920	1.00000	1.00000	243.26000
.304	10.234	-1.84350	4129.00000	.94150	.94140	.93000	.92940	.92940	.99990	1.00010	243.26000
.305	12.306	-1.84210	4129.00000	.94150	.94150	.93000	.92950	.92950	.99980	1.00000	243.92000
.306	14.351	-1.77238	4129.00000	.94140	.94140	.93000	.92940	.92940	.99990	1.00000	243.26000
.307	16.419	-1.83190	4129.00000	.94140	.94130	.92980	.92930	.92930	.99980	1.00000	243.92000
.308	18.491	-1.84360	4129.00000	.94130	.94130	.92980	.92920	.92920	.99970	1.00000	243.26000
.309	20.571	-1.84770	4129.00000	.94130	.94130	.92980	.92920	.92920	.99950	1.00000	243.92000
.310	22.611	-1.84190	4128.29999	.94150	.94130	.92770	.92870	.92900	.98770	.99810	242.58000
.311	24.656	-1.82200	4128.29999	.94150	.94130	.92770	.92870	.92870	.98580	.99750	242.59000
.312	26.657	-1.80860	4127.59998	.94170	.94140	.92780	.92840	.92840	.98580	.99750	242.59000
.313		.00853	.19958	-.00002	.08001	-.00004	-.00005	-.00012	-.00009	.00003	.59105

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.595	1.096	-1.85260	2531.29999	.78888	.78870	.75270	.74600	.74850	.99920	.99920	494.25000
.596	2.127	-1.85900	2531.29999	.78888	.78830	.75300	.74760	.74850	.99930	.99910	495.46000
.597	4.174	-1.84330	2532.00000	.78580	.78760	.75280	.74820	.74870	.99910	.99920	495.47000
.598	6.254	-1.84280	2532.00000	.78580	.78740	.75350	.74930	.74930	.99910	.99880	495.47000
.599	8.333	-1.84580	2532.00000	.78570	.78700	.75370	.75000	.74940	.99870	.99900	495.64000
.600	10.439	-1.84040	2532.00000	.78550	.78670	.75320	.75040	.75000	.99820	.99890	495.47000
.601	12.555	-1.83260	2532.00000	.78550	.78650	.75330	.75080	.75050	.99800	.99940	494.89000
.602	14.645	-1.79990	2532.70001	.78530	.78680	.75290	.75050	.75050	.99610	.99880	495.65000
.603	16.777	-1.86040	2532.70001	.78520	.78690	.75090	.75020	.75060	.99720	.99800	495.65000
.604	18.904	-1.86340	2532.70001	.78500	.78570	.74590	.74810	.74810	.99640	.99720	495.65000
.605	21.039	-1.85660	2532.70001	.78520	.78570	.74260	.74680	.74930	.99550	.99470	495.65000
.606	23.120	-1.84680	2532.70001	.78510	.78560	.74050	.74460	.74810	.99470	.99470	495.65000
.607	25.187	-1.81820	2532.70001	.78490	.78540	.73350	.74120	.74620	.99310	.99240	495.65000
.608	26.172	-1.80260	2532.70001	.78500	.78530	.72820	.73730	.74400	.99290	.99060	495.65000
.609		.00347	.24355	-.00030	-.00036	.00001	.00065	.00006	.00001	.00001	.32962

(BE7R41) (02 AUG 76)

PARAMETRIC DATA

BETA = .000
ALTRON = .000
ELEVON = .000
BDFLAP = -7.170

ABULATED DATA - 0A161 (ARC 11-97-87-89)
ARC 11-97-87-89* 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XGRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YGRP = .0000 IN. Y0
BREF = 936.6800 IN. ZGRP = 375.0000 IN. Z0
SCALE = .0360

RUN NO. 2607 0 RUN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH

ALPHA
1.084
2.096
2.109
4.109
6.136
8.176
10.218
12.260
14.305
16.375
18.445
20.528
22.576
24.627
26.648
28.648

BETA

19260 4127.59998
20700 4127.59998
21520 4127.59998
22210 4127.59998
22860 4127.59998
23940 4127.59998
24200 4127.59998
25030 4127.59998
25320 4128.29999
25680 4128.29999
00418 .00000

PT1/PT

94160
94180
94180
94180
94170
94170
94170
94160
94140
94130
94120
00009

PT2/PT

94110
94130
94140
94160
94150
94170
94160
94170
94140
94130
94120
00009

PT3/PT

93010
93008
93030
93030
93030
93060
93070
93070
93070
93040
92950
92950
00009

PT4/PT

92910
92928
92950
92950
92950
92970
92990
93008
93020
92980
92950
92950
00013

PT5/PT

92940
92940
92950
92950
92950
92950
92970
92970
92970
92980
92950
92950
00008

PT6/PT

1.00010
99990
1.00080
1.00000
99980
99990
99990
99990
99990
99990
99990
99990
00000

PT7/PT

99980
1.00000
1.00000
1.00010
1.00000
1.00000
1.00000
1.00000
1.00000
1.00000
1.00000
1.00000
00005

PT8/PT

243.24000
242.59000
241.91000
242.58000
242.59000
241.91000
241.91000
241.91000
241.91000
242.58000
242.58000
242.58000
-42516

RUN NO. 267/ 0 RUN/L = 4.21 GRADIENT INTERVAL = -5.06/ 5.00

MACH

ALPHA
1.090
2.124
4.175
6.246
8.336
10.429
12.522
14.632
16.750
18.863
21.001
23.099
25.164
26.150

BETA

19810 2530.60001
20270 2531.29999
20870 2531.29999
21260 2531.29999
21390 2532.70001
21190 2533.39999
21000 2534.10001
22010 2534.10001
22010 2534.10001
21670 2534.10001
20460 2535.60001
20720 2535.60001
21070 2535.60001
20910 2535.60001
00336 .19489

PT1/PT

78630
78590
78580
78570
78570
78560
78560
78560
78560
78460
78440
78440
78420
78420
00015

PT2/PT

78670
78630
78630
78620
78620
78620
78620
78620
78620
78460
78440
78440
78420
78420
00008

PT3/PT

75390
75250
75370
75350
75350
75380
75380
75380
75380
75380
75380
75380
75380
00003

PT4/PT

74470
74598
74740
74830
74900
74780
74830
74988
75060
75060
75330
74770
74950
74240
73800
08086

PT5/PT

74520
74540
74610
74690
74730
74780
74830
74938
74960
74960
74960
74960
74960
00030

PT6/PT

99950
99910
99990
99890
99890
99890
99890
99890
99890
99890
99890
99890
00021

PT7/PT

99950
99910
99990
99890
99890
99890
99890
99890
99890
99890
99890
99890
00021

PT8/PT

493.69000
495.46000
494.29000
493.71000
494.90000
496.08000
497.26000
497.26000
497.26000
498.43000
498.43000
498.43000
497.86000
497.86000
00021

(BETW-2) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X8
LREF = 474.8000 IN. YMRP = .0000 IN. Y8
BREF = 938.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
ATLRON =

PARAMETRIC DATA

2.000 ELEVON = .000
.000 BOFLAP = -7.170

RUN NO. 2594 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF
.298	1.080	2.24970	4126.90002	94630	93050	92910	92890	1.00020	1.00000	240.58000
.298	2.101	2.25250	4126.90002	94160	93050	92910	92890	1.00020	1.00000	240.58000
.298	4.112	2.27870	4126.90002	94060	93050	92910	92890	1.00020	1.00000	240.58000
.298	6.147	2.28660	4126.90002	94160	93050	92910	92890	1.00020	1.00000	240.58000
.297	8.189	2.29800	4126.90002	94120	93080	92980	92930	1.00000	1.00000	239.92000
.297	10.247	2.30990	4126.90002	94170	93080	92980	92940	1.00000	1.00000	239.92000
.297	12.330	2.34170	4126.90002	94130	93110	93010	92960	1.00020	1.00000	239.92000
.297	14.456	2.25970	4126.90002	94140	93070	93030	92950	1.00020	1.00000	241.25000
.298	16.823	2.24840	4127.99998	94110	93070	93070	92980	1.00020	1.00000	241.25000
.298	18.579	2.23810	4126.90002	94130	93050	93020	92980	1.00020	1.00000	242.58000
.298	20.629	2.23420	4126.90002	94120	93050	93010	92980	1.00020	1.00000	242.58000
.299	22.661	2.24480	4126.90002	94110	92930	92970	92930	1.00020	1.00000	241.25000
.299	24.685	2.26980	4127.99998	94080	92870	92910	92870	1.00020	1.00000	243.24000
.299	26.692	2.28240	4127.99998	94140	92770	92870	92870	1.00020	1.00000	243.24000
	GRADIENT	.00725	.00000	.00019	.00000	.00016	.00009	.00002	.00001	.00000

RUN NO. 2711 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF
.587	1.121	2.25250	2532.70001	78530	75210	74420	74510	99950	99950	496.65000
.587	2.132	2.27630	2534.10001	78500	75190	74550	74540	99950	99950	497.26000
.588	4.187	2.29490	2534.10001	78490	75210	74670	74590	99950	99950	498.42000
.587	6.268	2.30840	2534.10001	78470	75240	74780	74650	99950	99950	497.26000
.589	8.335	2.29710	2568.79999	77440	75310	74930	74740	99910	99910	501.39000
.586	10.498	2.31080	2568.79999	77450	75350	75010	74830	99890	99890	502.55000
.586	12.613	2.30740	2568.79999	77420	75420	75080	74900	99900	99900	503.14000
.597	14.745	2.29030	2568.79999	77420	75400	75080	74900	99850	99850	502.57000
.596	16.890	2.28850	2569.50000	77400	75450	75010	74900	99250	99250	504.58000
.596	19.004	2.28270	2569.50000	77400	75430	74950	74840	98920	98920	504.58000
.598	21.104	2.27980	2570.20001	77370	74400	74800	74840	98530	98530	502.00800
.595	23.192	2.28400	2570.20001	77380	74400	74800	74720	98290	98290	503.73000
.597	25.233	2.30240	2569.50000	77390	74340	74800	74500	98170	98170	503.18000
.596	26.202	2.30570	2570.20001	77350	74400	74800	74500	98000	98000	503.57535
	GRADIENT	.01313	.38963	.00012	.00012	.00078	.00065	.00004	.00000	.00000

(BETW43) 1 02 AUG 76

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = .080 BDFLAP = -7.170

TABULATED DATA - 0X161 (ARC 11-97-87-094)
 ARC 11-97-87-894 0X161 ORBITER + PROBE

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8800 IN. YMRP = .0800 IN. YO
 BREF = 936.6800 IN. ZMRP = 373.0000 IN. ZO
 SCALE = .0300

RUN NO. 258/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00V 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSE)
.297	1.119	5.31100	4128.29989	.93760	.92390	.93030	.92450	.91440	1.00010	.99890	239.25000
.297	2.117	5.31810	4128.29998	.93850	.92770	.93050	.92570	.91730	1.00000	1.00000	239.25000
.297	4.137	5.33120	4126.29999	.93938	.93070	.93150	.92670	.91980	.99990	1.00810	239.91000
.297	6.176	5.33870	4126.29999	.93970	.93300	.93050	.92730	.92160	1.00010	1.00800	239.91000
.296	8.226	5.34490	4128.29999	.94020	.93490	.93080	.92800	.92330	1.00010	1.00810	239.91000
.297	10.302	5.34180	4128.29999	.94050	.93520	.93080	.92860	.92460	.99980	.99990	239.25000
.296	12.370	5.34910	4128.29999	.94090	.93740	.93100	.92900	.92560	.99950	1.00010	239.91000
.297	14.447	5.35510	4128.29999	.94030	.93820	.93090	.92940	.92670	.99840	.99920	241.92000
.298	16.508	5.36950	4128.29999	.94030	.93840	.93110	.92890	.92690	.99830	.99840	241.92000
.298	18.569	5.38420	4129.00000	.94040	.93870	.93100	.92880	.92700	.99860	.99860	241.92000
.299	20.618	5.39920	4129.00000	.94060	.93920	.93100	.92880	.92770	.99860	.99860	241.92000
.298	22.638	5.41420	4129.00000	.94070	.93940	.93100	.92880	.92790	.99860	.99860	241.92000
.297	24.662	5.42920	4129.00000	.94080	.93970	.93100	.92880	.92790	.99860	.99860	241.92000
.298	26.699	5.44420	4129.00000	.94090	.93970	.93100	.92880	.92790	.99860	.99860	241.92000
	GRADIENT			.00054	.00214	.00006	.00069	.00171	.00006	.00006	.23407

RUN NO. 259/ 0 RN/L = 4.22 GRADIENT INTERVAL = -5.00K 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSE)
.595	1.187	5.37510	2568.10001	.77439	.77470	.75130	.74390	.74430	.99940	.99900	501.39000
.596	2.204	5.37240	2568.10001	.77380	.77410	.75100	.74500	.74440	.99910	.99920	501.39000
.596	4.262	5.37190	2568.10001	.77370	.77400	.75100	.74620	.74590	.99950	.99920	501.39000
.595	6.329	5.37290	2568.10001	.77370	.77370	.75170	.74700	.74550	.99920	.99940	501.39000
.595	8.421	5.33080	2568.10001	.77370	.77350	.75230	.74790	.74650	.99930	.99920	501.39000
.595	10.505	5.31520	2568.79999	.77330	.77330	.75280	.74860	.74720	.99940	.99940	501.39000
.595	12.591	5.30420	2568.79999	.77350	.77320	.75270	.74920	.74760	.99910	.99910	501.39000
.596	14.673	5.31540	2568.79999	.77310	.77310	.75130	.74860	.74760	.99890	.99890	501.39000
.596	16.769	5.32060	2569.50002	.77310	.77280	.74990	.74760	.74760	.99890	.99890	501.39000
.594	18.885	5.34180	2568.79999	.77330	.77310	.74700	.74730	.74760	.99890	.99890	501.39000
.594	20.991	5.35640	2568.10001	.77360	.77330	.74700	.74730	.74760	.99890	.99890	501.39000
.595	23.075	5.36500	2568.79999	.77310	.77280	.74350	.74590	.74700	.99890	.99890	501.39000
.595	25.155	5.37020	2569.50000	.77310	.77280	.73160	.74000	.74410	.99890	.99890	501.39000
.595	26.117	5.37890	2568.79999	.77320	.77280	.73160	.74000	.74410	.99890	.99890	501.39000
	GRADIENT			-.00014	-.00020	-.00006	.00072	.00024	.00006	.00006	.36690

TABULATED DATA - 0A16J (ARC 11-97-87-094)

(BETR44) (C2 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA =
 AIRRON =
 B.000 ELEVON = -.000
 .000 BOFLAP = -7.170

RUN NO. 257/ 0 RM/L = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.295	1.186	8.35750	4125.50000	.62850	.00000	.92800	.64800	.77500	1.00000	1.00000	235.58000
.294	2.174	8.37540	4126.90002	.71260	.00000	.92180	.71410	.76310	.99990	1.00010	235.24000
.295	4.182	8.37530	4127.59998	.77350	.63750	.92240	.76510	.76610	1.00000	.99990	235.90000
.295	6.217	8.37270	4128.29999	.81830	.68570	.92360	.80430	.77810	.99990	.99990	237.25000
.296	8.253	8.37760	4128.29999	.85120	.72990	.92490	.83420	.79420	1.00000	.99990	237.92000
.295	10.319	8.37200	4128.29999	.87520	.76850	.92620	.85700	.81170	.99990	.99990	236.58000
.295	12.372	8.37380	4128.29999	.89280	.80190	.92740	.87460	.82210	.99990	.99990	236.48000
.295	14.435	8.37670	4128.29999	.90550	.82930	.92820	.88770	.84470	.99990	.99990	236.58000
.296	16.477	8.35550	4128.29999	.91500	.85210	.92830	.89760	.85880	.99990	.99990	237.92000
.295	18.532	8.35780	4128.29999	.92190	.87060	.92890	.90530	.87120	.99990	.99990	237.25000
.295	20.574	8.36760	4128.29999	.92700	.88540	.92930	.91100	.88160	.99990	.99990	235.91000
.294	22.587	8.38300	4128.29999	.93060	.89730	.92930	.91540	.89040	.99990	.99990	235.91000
.294	24.599	8.40500	4128.29999	.93330	.90660	.92920	.91850	.89770	.99990	.99990	237.25000
.295	26.580	8.42800	4128.29999	.93530	.91410	.92920	.92110	.90370	.99990	.99990	237.25000
	GRADIENT	.00507	.64938	.04573	.22809	.00073	.03754	-.00232	.00001	-.00004	-.14573

RUN NO. 270/ 0 RM/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.595	1.188	8.42910	2567.39999	.77450	.77420	.74970	.74470	.74540	.99990	.99990	500.20000
.595	2.204	8.43240	2567.39999	.77430	.77430	.74970	.74570	.74560	.99990	.99990	500.20000
.595	4.256	8.42870	2567.39999	.77410	.77420	.75020	.74620	.74580	.99990	.99990	500.78000
.595	6.336	8.42250	2568.10001	.77390	.77380	.74960	.74650	.74590	.99990	.99990	500.80000
.594	8.417	8.43010	2568.10001	.77360	.77350	.74960	.74680	.74600	.99990	.99990	500.21000
.595	10.535	8.42330	2568.10001	.77350	.77350	.75060	.74720	.74620	.99990	.99990	500.80000
.595	12.641	8.41790	2568.79999	.77330	.77310	.75100	.74740	.74630	.99990	.99990	500.81000
.595	14.748	8.42180	2568.79999	.77330	.77310	.74850	.74710	.74640	.99990	.99990	501.59000
.595	16.829	8.40560	2568.79999	.77330	.77310	.74830	.74690	.74640	.99990	.99990	502.55000
.597	18.932	8.41200	2568.79999	.77320	.77310	.74830	.74600	.74630	.99990	.99990	504.30000
.594	21.020	8.42030	2568.79999	.77320	.77310	.74820	.74490	.74580	.99990	.99990	499.64000
.595	23.079	8.42720	2569.50000	.77310	.77260	.74820	.74350	.74500	.99990	.99990	500.82000
.595	25.131	8.43850	2569.50000	.77310	.77270	.73990	.74200	.74400	.99990	.99990	500.82000
.595	26.100	8.44420	2569.50000	.77310	.77280	.73970	.73970	.74290	.99990	.99990	502.57000
	GRADIENT	-.00037	.00003	-.00013	-.00008	.00017	.00045	.00006	.00001	.00013	-.20262

(BETR-3) (02 AUG 78)

PARAMETRIC DATA

BETA = -5.000 ELEVON = 15.000
AILRON = .000 BOFLAP = -7.178

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RUN NO. 276/ 0 RUN/L = 3.91 GRADIENT INTERVAL = -5.00/ 9.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF
.296	.19	-4.89690	4102.90002	.94030	.93980	.92860	.92810	.92830	.99990	1.00000	237.15000
.296	2.136	-4.89690	4102.90002	.94040	.94010	.92910	.92820	.92830	1.00010	1.00010	236.54000
.296	4.185	-4.89440	4102.90002	.94040	.94030	.92940	.92850	.92840	.95990	1.00000	237.15000
.296	6.213	-4.88860	4102.90002	.94050	.94040	.92930	.92850	.92830	.95970	1.00030	236.54000
.296	8.252	-4.88380	4103.59998	.94020	.94010	.92920	.92840	.92830	.95950	1.00010	236.53000
.296	10.339	-4.87440	4103.59998	.94020	.94030	.92920	.92860	.92850	.95940	.99990	237.20000
.296	12.365	-4.84240	4103.59998	.94020	.94020	.92970	.92890	.92860	.95960	.99980	237.20000
.297	14.411	-4.81730	4103.59998	.94000	.94010	.92970	.92900	.92860	.95930	.99960	237.20000
.296	16.451	-4.81530	4103.59998	.94000	.94000	.92970	.92900	.92870	.95950	.99950	237.20000
.296	18.516	-4.84860	4103.59998	.94000	.94000	.92970	.92880	.92870	.95930	.99920	237.20000
.297	20.579	-4.85980	4103.59998	.93990	.93990	.92870	.92880	.92870	.95930	.99900	237.20000
.296	22.625	-4.86660	4103.59998	.93990	.93990	.92870	.92880	.92860	.95950	.99900	236.53000
.296	24.676	-4.86310	4103.59998	.93990	.93990	.92870	.92880	.92830	.95910	.99750	237.20000
.296	25.688	-4.85820	4103.59998	.93990	.93980	.92860	.92720	.92790	.98390	.99730	237.20000
GRADIENT		.00063	.00004	.00003	.00010	.00015	.00010	.00003	.00000	.00000	.00019

RUN NO. 277/ 0 RUN/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	QIPSF
.597	.238	-4.94770	2520.00000	1.32640	1.46980	.80140	1.31730	1.30590	.99830	.99770	424.08000
.597	2.262	-4.92880	2521.39399	1.18250	1.39390	.79550	1.18480	1.26830	.93880	.92650	424.69000
.597	4.305	-4.91990	2522.10001	1.07750	1.30970	.78900	1.08350	1.21640	.93830	.92590	424.12000
.597	6.384	-4.91350	2522.10001	1.00070	1.22770	.78290	1.00620	1.15920	.93830	.92590	424.71000
.597	8.471	-4.90240	2522.10001	.94490	1.15320	.77750	.94750	1.10330	.93830	.92590	424.71000
.599	10.574	-4.89610	2522.79999	.90350	1.08690	.77200	.90180	1.05020	.93830	.92590	424.71000
.598	12.672	-4.88270	2522.10001	.87340	1.03080	.76720	.86700	1.00300	.93830	.92590	424.71000
.597	14.764	-4.89160	2521.39399	.85170	.98430	.76220	.83970	.95170	.93830	.92590	424.71000
.596	16.850	-4.88420	2522.10001	.83480	.94520	.75470	.81710	.92510	.93830	.92590	424.71000
.596	18.973	-4.93900	2522.10001	.82280	.91350	.74950	.79920	.89360	.93830	.92590	424.71000
.596	21.077	-4.90820	2522.10001	.81410	.88800	.74360	.78460	.86550	.93830	.92590	424.71000
.597	23.157	-4.91030	2522.10001	.80730	.86700	.73980	.77250	.84300	.93830	.92590	424.71000
.599	25.170	-4.87610	2522.10001	.80260	.85040	.73980	.77250	.82220	.93830	.92590	424.71000
.597	26.154	-4.86900	2521.10001	.79870	.83710	.71280	.74700	.80380	.93830	.92590	424.71000
GRADIENT		.00693	.51610	.06119	.03937	.00305	.05745	.02201	.00015	.00129	.00937

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OF POOR QUALITY

(18E7R48) 1 02 AUG 76

PARAMETRIC DATA

BETA = -2.000 ELEVON = 15.000
 AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 0A181 ORBITER + PROBES

REFERENCE DATA

SREF = 2590.0000 50. FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300.

RUN NO. 2754 0 RWL = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.297	.175	-1.87260	4106.00000	.93980	.93930	.92860	.92780	.92800	1.00080	1.00020	238.53000
.297	2.154	-1.84880	4105.00000	.93980	.93930	.92860	.92780	.92790	1.00000	.99990	239.20000
.297	4.163	-1.83540	4105.00000	.93980	.93930	.92860	.92780	.92790	1.00020	1.00010	239.20000
.297	6.192	-1.83090	4105.00000	.93978	.93950	.92860	.92790	.92790	1.00000	1.00010	238.53000
.297	8.226	-1.83330	4105.00000	.93970	.93950	.92860	.92790	.92790	.99980	1.00020	238.53000
.297	10.263	-1.83580	4105.00000	.93970	.93950	.92860	.92790	.92790	.99970	1.00020	238.53000
.297	12.354	-1.83980	4105.00000	.93970	.93950	.92860	.92790	.92790	.99950	1.00020	238.53000
.297	14.399	-1.84370	4105.00000	.93970	.93950	.92860	.92790	.92790	.99970	1.00010	238.53000
.297	16.470	-1.84750	4105.00000	.93958	.93940	.92860	.92790	.92790	.99980	.99970	239.20000
.297	18.540	-1.84940	4105.00000	.93958	.93940	.92860	.92790	.92790	.99980	.99970	239.20000
.297	20.617	-1.84940	4105.00000	.93958	.93940	.92860	.92790	.92790	.99980	.99970	239.20000
.297	22.695	-1.84940	4105.00000	.93958	.93940	.92860	.92790	.92790	.99980	.99970	239.20000
.297	24.695	-1.84980	4105.00000	.93958	.93940	.92860	.92790	.92790	.99980	.99970	239.20000
.297	25.699	-1.80940	4104.29999	.93978	.93940	.92860	.92790	.92790	.99980	.99970	237.67000
.297	GRADIENT	.00933	-.00004	.00000	.00002	-.00008	-.00000	-.08005	.00005	-.00002	.16771

RUN NO. 2784 0 RWL = 4.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.596	.184	-1.85200	2520.00000	.79630	.82140	.74820	.74820	.77970	.99920	.99920	492.34000
.596	2.289	-1.85810	2520.00000	.79420	.81430	.74770	.74720	.77180	.99930	.99930	492.93000
.597	4.284	-1.84120	2522.10001	.79258	.80870	.74750	.74630	.76550	.99930	.99910	494.12000
.596	6.363	-1.85070	2522.10001	.79140	.80450	.74750	.74630	.76110	.99920	.99940	493.54000
.596	8.453	-1.83950	2522.10001	.79060	.80100	.74800	.74630	.75780	.99950	.99950	493.54000
.599	10.569	-1.82730	2522.10001	.79000	.79830	.74760	.74630	.75520	.99950	.99950	495.45000
.598	12.687	-1.82650	2522.10001	.78950	.79620	.74770	.74630	.75320	.99960	.99960	495.29000
.597	14.741	-1.82790	2522.10001	.78920	.79450	.74570	.74550	.75170	.99930	.99930	494.69000
.597	16.873	-1.87630	2521.39999	.78810	.79360	.74110	.74180	.75010	.99230	.99830	492.38000
.595	18.999	-1.87510	2522.10001	.78880	.79220	.73710	.74180	.74810	.99720	.99720	492.96000
.596	21.118	-1.86350	2522.10001	.78850	.79140	.73350	.73900	.74616	.97930	.99630	493.30000
.597	23.191	-1.85330	2522.79995	.78830	.79060	.72870	.73550	.74330	.96630	.99440	495.29000
.598	25.192	-1.81920	2522.10001	.78830	.79020	.71490	.72980	.74020	.95510	.99220	496.29000
.597	26.160	-1.80400	2521.39999	.78850	.79010	.70680	.72350	.73620	.95150	.99070	494.69000
.597	GRADIENT	.00264	.51232	-.00883	-.00310	-.00024	-.00044	-.00346	.00002	-.00002	.43425

(BETRY7) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER + PROBE'S

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8080 IN. YMRP = .0000 IN. Y0
BREF = 936.6880 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 274 0 RWL = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
.296	.143	.18390	4105.70001	.93940	.93840	.92610	.92710	.92680	1.00820	1.00000	239.87000
.297	2.148	.20190	4105.70001	.93950	.93850	.92620	.92720	.92690	1.00030	1.00010	239.87000
.298	4.160	.20270	4105.70001	.93960	.93860	.92630	.92730	.92700	1.00030	1.00030	239.87000
.299	6.183	.20680	4105.70001	.93970	.93870	.92640	.92740	.92710	1.00000	1.00010	239.87000
.297	8.225	.21270	4105.70001	.93980	.93880	.92650	.92750	.92720	.99990	.99990	239.87000
.297	10.265	.21230	4105.70001	.93990	.93890	.92660	.92760	.92730	.99980	1.00020	239.87000
.297	12.304	.21050	4105.70001	.93940	.93840	.92610	.92710	.92680	.99940	1.00010	239.87000
.297	14.360	.22980	4105.70001	.93930	.93830	.92600	.92700	.92670	.99970	.99990	239.87000
.297	16.428	.22870	4105.70001	.93930	.93830	.92600	.92700	.92670	.99970	.99980	239.87000
.297	18.489	.23880	4105.70001	.93930	.93830	.92600	.92700	.92670	.99970	.99980	239.87000
.297	20.571	.23060	4105.70001	.93940	.93840	.92610	.92710	.92680	.99980	.99960	239.87000
.298	22.617	.23240	4105.70001	.93940	.93840	.92610	.92710	.92680	.99980	.99960	239.87000
.298	24.665	.24010	4105.70001	.93930	.93830	.92600	.92700	.92670	.99980	.99960	239.87000
.298	26.681	.23340	4105.70001	.93930	.93830	.92600	.92700	.92670	.99980	.99960	239.87000
	GRADIENT	.03468	.00000	.00002	.00010	.00015	.00007	.00002	.00002	.00007	.16439

RUN NO. 275 0 RWL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q1PSF1
.596	.170	.20810	2520.00000	.78960	.78810	.74490	.73270	.73550	.99920	.99900	492.92000
.600	2.230	.22680	2537.00001	.78940	.78800	.74470	.73250	.73530	1.00040	1.00050	501.40000
.592	4.285	.22740	2548.29999	.78120	.78260	.74880	.73330	.73870	.99990	.99990	492.85000
.594	6.363	.23740	2555.39999	.77870	.78010	.74710	.73490	.73860	.99990	.99990	497.65000
.595	8.464	.24040	2556.10001	.77830	.77960	.74760	.73450	.73250	.99990	.99990	498.24000
.597	10.573	.24040	2556.79999	.77790	.77910	.74700	.73400	.73420	.99990	.99990	500.59000
.595	12.685	.23760	2555.39999	.77800	.77930	.74650	.73370	.73670	.99990	.99990	498.81000
.594	14.751	.24110	2555.39999	.77780	.77890	.74650	.73370	.73670	.99990	.99990	497.07000
.595	16.853	.23530	2555.39999	.77780	.77890	.74650	.73370	.73670	.99990	.99990	498.81000
.595	18.963	.23390	2555.39999	.77780	.77890	.74650	.73370	.73670	.99990	.99990	498.81000
.595	21.088	.22090	2556.10001	.77770	.77860	.74650	.73370	.73670	.99990	.99990	498.24000
.595	23.170	.21900	2556.79999	.77760	.77850	.74650	.73370	.73670	.99990	.99990	498.81000
.595	25.169	.22990	2556.10001	.77760	.77850	.74650	.73370	.73670	.99990	.99990	498.81000
	GRADIENT	.00470	6.89000	.00205	.00207	.00995	.08015	.80117	.00015	.00015	.01823

TABULATED DATA - 0A161 (ARC 11-97-87-09%)

ARC 11-97-87-09% 0A161 ORBITER + PROBES

(BET748) (02 AUG 76)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.000' SQ.FT. XMRP = 1078.8800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.8800 IN. ZMRP = 375.0800 IN. ZO
 SCALE = .0300

BETA =
 AIRON =

2.000 ELEVON = 15.000
 .000 BDFLAP = -7.170

RUN NO. 273# 0 RNAL = 3.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.296	.142	2.26150	4105.70001	.93570	.92170	.92770	.92170	.91020	1.00020	1.00020	239.87000
.297	2.156	2.26480	4105.70001	.93580	.92570	.92800	.92320	.91350	1.00000	1.00000	239.21000
.298	4.188	2.27720	4105.70001	.93740	.92670	.92800	.92410	.91620	1.00010	1.00020	239.87000
.297	6.284	2.28640	4105.70001	.93790	.92710	.92830	.92500	.91840	1.00010	1.00010	239.21000
.298	8.246	2.29330	4105.70001	.93820	.92850	.92850	.92570	.92030	1.00000	1.00020	239.87000
.297	10.297	2.31030	4105.70001	.93850	.92920	.92880	.92640	.92180	.99980	1.00010	239.87000
.298	12.397	2.30980	4105.70001	.93870	.92940	.92900	.92710	.92310	.99960	1.00020	239.87000
.297	14.497	2.27160	4105.70001	.93890	.92960	.92900	.92768	.92390	.99970	.99970	239.20000
.298	16.577	2.25340	4105.70001	.93890	.92960	.92900	.92768	.92390	.99980	.99980	239.20000
.297	18.630	2.23970	4105.70001	.93880	.92970	.92900	.92768	.92390	.99980	.99980	239.20000
.297	20.678	2.22440	4105.70001	.93860	.92970	.92900	.92768	.92390	.99980	.99980	239.20000
.297	22.702	2.25080	4105.70001	.93830	.92970	.92900	.92768	.92390	.99980	.99980	239.20000
.297	24.726	2.27210	4105.70001	.93810	.92958	.92658	.92740	.92650	.98250	.98250	238.54000
.297	25.738	2.28310	4105.70001	.93810	.92958	.92658	.92680	.92650	.98250	.98250	238.54000
.297		.00390	.00000	.00474	.00007	.00007	.00160	.00149	.08002	.08002	.00086

RUN NO. 280# 0 RNAL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.595	.196	2.25620	2554.00000	.77890	.77940	.74580	.73740	.73770	.99960	.99960	498.20000
.595	2.244	2.28440	2554.00001	.77860	.77940	.74550	.73860	.73810	.99920	.99920	498.80000
.594	4.304	2.29860	2554.00001	.77840	.77940	.74510	.74000	.73890	.99950	.99950	497.05000
.594	6.386	2.30480	2554.00001	.77800	.77840	.74470	.74150	.73980	.99900	.99900	497.05000
.596	8.493	2.30350	2555.39999	.77800	.77840	.74470	.74240	.74040	.99890	.99890	498.98000
.594	10.606	2.30700	2555.39999	.77760	.77850	.74400	.74370	.74150	.99810	.99810	497.65000
.593	12.737	2.28490	2556.10001	.77760	.77790	.74390	.74200	.74200	.99830	.99830	498.82000
.595	14.827	2.35760	2556.10001	.77750	.77790	.74320	.74250	.74250	.99820	.99820	561.74000
.597	16.976	2.31070	2556.10001	.77750	.77790	.74260	.74260	.74260	.99770	.99770	498.82000
.595	19.093	2.29780	2556.10001	.77740	.77790	.74100	.74120	.74120	.99690	.99690	500.59000
.597	21.192	2.28910	2556.10001	.77720	.77760	.73680	.73930	.74130	.99590	.99590	496.94000
.593	23.251	2.30110	2556.10001	.77720	.77760	.73540	.73790	.74060	.99270	.99270	500.00000
.596	25.218	2.39870	2556.10001	.77720	.77730	.71540	.73140	.73780	.99180	.99180	498.82000
.595	26.189	2.31470	2556.10001	.77750	.77750	.70950	.72530	.73450	.99180	.99180	498.82000
.595		.01032	.17023	.00007	.00007	.00007	.08873	.00029	.00000	.00000	.28062

(BETW49) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.08C ELEVON = 15.000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8800 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RUN NO. 272/ 0 RNAL = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.297	.178	5.29790	4107.79999	.62290	.00000	.91580	.64970	.66600	1.08040	1.00030	238.54000
.298	2.175	5.33200	4107.79999	.70790	.00000	.91680	.71600	.68280	1.08000	1.00020	240.54000
.299	4.195	5.34190	4107.79999	.76960	.62920	.91850	.76610	.70650	.99960	.99980	240.54000
.297	6.235	5.34570	4107.09998	.81530	.67910	.92020	.80480	.73378	1.00010	.99980	239.21000
.297	8.278	5.35420	4107.09998	.84840	.72430	.92230	.83480	.76980	.99980	1.00000	238.54000
.298	10.351	5.34900	4107.09998	.87260	.76390	.92360	.85620	.78640	.99980	.99980	239.88000
.299	12.419	5.34440	4107.09998	.89930	.78760	.92500	.87340	.80910	.99990	.99990	241.20000
.299	14.496	5.34030	4107.09998	.90380	.82540	.92570	.88610	.82940	.99940	.99940	241.20000
.299	16.558	5.32610	4107.09998	.91250	.84830	.92610	.89580	.84560	.99740	.99740	240.54000
.298	18.623	5.32090	4107.09998	.91940	.86710	.92640	.90330	.86120	.99550	.99550	239.20000
.297	20.670	5.32220	4106.40002	.92460	.88230	.92670	.90910	.87370	.99330	.99330	239.53000
.297	22.687	5.32750	4106.40002	.92830	.89430	.92680	.91320	.88390	.99300	.99300	239.20000
.297	24.708	5.34750	4106.40002	.93100	.90370	.92580	.91600	.89200	.98360	.98360	239.87000
.298	25.700	5.35340	4105.40002	.93300	.91130	.92480	.91790	.89830	.98410	.98410	.49687
	GRADIENT	.01094	.00000	.03651	.15694	.00067	.02897	.01009	.00020	.00010	

RUN NO. 281/ 0 RNAL = 4.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.596	.213	5.34470	2555.39999	.77810	.77630	.74410	.73330	.73450	.99890	.99880	499.40000
.595	2.259	5.36160	2555.39999	.77770	.77810	.74520	.73560	.73510	.99910	.99900	498.61000
.594	4.327	5.37330	2555.39999	.77750	.77790	.74590	.73750	.73571	.99950	.99960	497.07000
.594	6.412	5.37270	2556.10004	.77710	.77740	.74530	.73870	.73640	.99990	.99990	497.08000
.597	8.516	5.37360	2556.10001	.77700	.77730	.74670	.74020	.73760	.99930	.99900	500.57000
.595	10.610	5.35630	2556.79999	.77680	.77700	.74640	.74110	.73840	.99850	.99880	499.42000
.597	12.740	5.35820	2556.79999	.77680	.77700	.74670	.74240	.73950	.99820	.99820	500.59000
.594	14.826	5.36450	2556.79999	.77660	.77680	.74620	.74180	.74010	.99410	.99410	499.41000
.596	16.928	5.38240	2556.10001	.77700	.77700	.74190	.74140	.74060	.99030	.99030	501.16000
.597	19.049	5.38870	2556.10001	.77690	.77680	.73970	.74040	.74050	.99750	.99750	499.99000
.596	21.148	5.39620	2556.79999	.77660	.77680	.73750	.73900	.74010	.96920	.96920	500.59000
.597	23.215	5.40140	2556.79999	.77660	.77680	.73300	.73680	.73870	.99480	.99480	500.02000
.596	25.195	5.39920	2557.50000	.77610	.77610	.71860	.73120	.73630	.94880	.94880	500.00000
.596	28.157	5.40820	2556.79999	.77640	.77630	.71020	.72510	.73310	.93500	.93500	500.00000
	GRADIENT	.00710	.00000	.00015	.00010	.00044	.00102	.00029	.00015	.00019	.58683

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TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8090 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA =
AIRLON =
-5.090 ELEVON = .000
.000 BDFLAP = -7.170

RUN NO. 244 0 RVAL = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(MPS)
.560	.142	-4.91900	2547.60001	.77240	.77310	.77270	.77280	.77260	.77310	.79870	451.51000
.561	2.164	-4.92050	2548.29999	.77270	.77260	.77190	.77230	.77160	.77180	.78790	453.30000
.562	4.200	-4.92650	2549.00000	.77200	.77160	.77210	.77160	.77140	.77150	.78110	452.72000
.563	6.280	-4.91930	2549.70001	.77070	.77090	.77110	.77090	.77150	.77150	.77660	453.92000
.564	8.337	-4.91250	2549.00000	.77140	.77120	.77170	.77150	.77170	.77170	.77460	452.72000
.565	10.431	-4.90270	2549.00000	.77120	.77110	.77080	.77150	.77120	.77130	.77310	453.32000
.566	12.929	-4.87450	2549.00000	.77110	.77070	.77080	.77160	.77050	.77090	.77220	452.72000
.567	14.626	-4.86210	2549.70001	.76980	.76930	.76870	.76910	.76840	.76790	.77070	453.33000
.568	16.787	-4.86300	2549.70001	.76740	.76570	.76590	.76540	.76530	.76580	.76920	452.73000
.569	18.821	-4.89620	2549.00000	.76460	.76440	.76490	.76370	.76420	.76380	.76700	452.13000
.570	20.918	-4.89780	2549.00000	.76190	.76150	.76120	.76080	.76090	.76140	.76440	452.72000
.571	23.003	-4.89560	2549.70001	.75750	.75860	.75830	.75880	.75790	.75830	.76130	453.92000
.572	25.083	-4.89100	2549.70001	.75520	.75600	.75550	.75650	.75540	.75650	.75860	451.54000
.573	GRADIENT	-4.00187	.34501	.00010	.00037	.00015	.00030	.00038	.00039	.00453	.29751

RUN NO. 334 0 RVAL = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(MPS)
.738	.115	-4.95010	2438.70001	.64740	.64800	.64810	.64720	.64730	.64820	.72830	637.78000
.739	2.170	-4.94910	2439.39999	.64620	.64570	.64540	.64610	.64620	.64640	.69290	639.90000
.740	4.236	-4.95170	2438.70001	.64650	.64520	.64530	.64610	.64620	.64670	.67410	639.35000
.741	6.337	-4.94840	2438.70001	.64530	.64560	.64560	.64600	.64580	.64750	.66360	638.83000
.742	8.452	-4.94230	2438.39999	.64660	.64630	.64470	.64600	.64530	.64480	.65570	640.42000
.743	10.577	-4.92540	2439.39999	.64570	.64440	.64430	.64570	.64510	.64570	.66150	639.38000
.744	12.687	-4.90740	2438.39999	.64280	.64360	.64240	.64220	.64400	.64370	.64820	639.90000
.745	GRADIENT	-4.00039	.00027	.00022	.00058	.00068	.00027	.00027	.00012	.01315	.38050

(187555) (02 AUG 76)

TABULATED DATA - 0A164 (ARC 11-97-87-094)

ARC 11-97-87-094 0A164 ORBITER

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .008 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0080 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0080 IN. Z0
SCALE = .0300

RUN NO. 3374 0 RWL = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.556	.012	-5.57260	1586.50000	.14230	.14210	.14270	.14210	.14210	.14240	.14210	641.02000
1.556	2.012	-5.57320	1581.39999	.14380	.14420	.14400	.14400	.14380	.14380	.14330	643.12000
1.556	6.163	-5.57320	1581.39999	.14330	.14320	.14330	.14330	.14290	.14310	.14290	643.12000
1.556	8.234	-5.57270	1512.10001	.14130	.14090	.14090	.14150	.14130	.14140	.14130	643.42000
1.556	10.305	-5.56990	1512.10001	.14080	.14070	.14080	.14070	.14060	.14040	.14030	643.42000
1.556	12.346	-5.57220	1511.39999	.13840	.13880	.13830	.13830	.13820	.13840	.13840	643.12000
1.556	14.441	-5.57480	1510.00000	.13140	.13160	.13190	.13160	.13190	.13260	.13260	642.52000
1.556	16.583	-5.57670	1512.10001	.13120	.13120	.13120	.13120	.13120	.13150	.13150	643.42000
1.556	18.678	-5.57330	1512.89999	.12380	.12390	.12410	.12390	.12350	.13150	.13120	643.72000
1.556	22.799	-5.57170	1513.60001	.11820	.11770	.11770	.11770	.11780	.11810	.11780	644.03000
1.556	24.859	-5.57570	1513.60001	.11520	.11510	.11510	.11510	.11570	.11550	.11560	644.03000
1.556	GRADIENT	-.00060	2.44963	.00075	.08105	.00065	.00095	.00085	.00070	.00060	1.04985

RUN NO. 3407 0 RWL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.936	-.020	-5.93150	1832.50000	.05990	.05820	.05830	.05020	.05010	.05010	.05880	657.14000
1.936	1.955	-5.92900	1831.80000	.05840	.05850	.05880	.05860	.05860	.05860	.05860	656.89000
1.936	4.020	-5.92790	1831.10001	.05820	.05820	.05820	.05840	.05850	.05850	.05840	656.63000
1.936	6.082	-5.92880	1833.20000	.05950	.05970	.05970	.05980	.05950	.05930	.05930	657.39000
1.936	8.145	-5.92780	1831.80000	.05680	.05710	.05720	.05710	.05710	.05700	.05700	656.89000
1.936	10.202	-5.92520	1831.80000	.05690	.05650	.05650	.05650	.05650	.05640	.05640	656.89000
1.936	12.239	-5.92480	1832.50000	.05470	.05470	.05470	.05500	.05460	.05460	.05460	657.14000
1.936	14.332	-5.92330	1831.80000	.05330	.05330	.05330	.05330	.05330	.05330	.05330	656.89000
1.936	16.464	-5.92260	1831.80000	.05310	.05330	.05340	.05320	.05330	.05310	.05330	656.89000
1.936	18.548	-5.92340	1831.80000	.05020	.05030	.05100	.05000	.05030	.05030	.05030	657.14000
1.936	20.569	-5.92080	1832.50000	.05020	.05030	.05030	.05030	.05030	.05020	.04830	657.14000
1.936	22.648	-5.91880	1832.50000	.04800	.04810	.04830	.04660	.04660	.04660	.04660	657.14000
1.936	24.710	-5.91810	1832.50000	.04660	.04660	.04660	.04550	.04550	.04570	.04540	657.14000
1.936	25.733	-5.91490	1832.50000	.04550	.04560	.04560	.04550	.04530	.04530	.04530	1.12624
1.936	GRADIENT	-.00089	-.34647	-.00042	-.00049	-.00049	-.00044	-.00037	-.00039	-.00034	

(BT755) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8003 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0080 IN. Z0
SCALE = .0300

BETA =
ALFON =

-2.000 ELEVON = .000
.000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 254 0 RNAL = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
.950	.090	-1.84650	2547.50801	.77340	.77320	.77310	.77340	.77320	.77330	.76820	452.10000
.951	2.125	-1.84910	2548.29999	.77240	.77330	.77240	.77290	.77310	.77310	.77050	453.30000
.951	4.171	-1.83970	2548.29999	.77310	.77260	.77330	.77320	.77280	.77280	.77150	453.30000
.951	6.233	-1.84630	2548.29999	.77280	.77270	.77260	.77290	.77260	.77250	.77180	453.90000
.951	8.308	-1.84710	2549.00000	.77280	.77270	.77230	.77240	.77190	.77260	.77180	453.91000
.951	10.404	-1.84680	2549.00000	.77210	.77220	.77210	.77210	.77240	.77280	.77220	453.91000
.951	12.514	-1.84140	2549.00000	.77090	.77170	.77150	.77150	.77170	.77110	.77170	453.32000
.951	14.605	-1.79950	2549.00000	.77010	.77100	.77030	.76990	.77030	.77010	.77070	452.72000
.952	16.721	-1.86270	2549.00000	.76740	.76850	.76760	.76740	.76740	.76740	.76920	455.11000
.950	18.835	-1.86540	2548.29999	.76380	.76490	.76490	.76400	.76440	.76350	.76350	452.71000
.951	20.941	-1.88950	2548.29999	.76030	.75980	.75980	.75980	.76000	.76030	.76030	451.53000
.959	23.023	-1.84930	2549.00000	.75510	.75510	.75510	.75510	.75500	.75530	.75530	452.72000
.950	25.092	-1.82498	2549.00000	.75230	.75280	.75220	.75160	.75050	.75200	.75230	453.30000
.951	26.061	-1.78350	2548.29999	.74800	.74830	.74820	.74780	.74770	.74780	.74780	.29350
	GRADIENT	.03167	.17139	-.00007	-.00015	.00805	-.00005	-.00010	-.00012	.00081	

RUN NO. 3387 0 RNAL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSE)
1.558	.031	-2.54540	1529.80000	.14530	.14550	.14560	.14570	.14560	.14570	.14560	650.95000
1.556	2.019	-2.54570	1529.10001	.14670	.14670	.14680	.14660	.14660	.14660	.14660	650.65000
1.556	4.098	-2.54560	1531.20000	.14540	.14540	.14510	.14520	.14520	.14520	.14520	651.25000
1.558	6.170	-2.54500	1530.50000	.14380	.14440	.14430	.14390	.14420	.14420	.14440	651.25000
1.556	8.240	-2.54650	1529.80000	.14260	.14240	.14220	.14260	.14220	.14200	.14220	650.95000
1.555	10.306	-2.54430	1530.50000	.13940	.13970	.13930	.13930	.13870	.13920	.13850	651.25000
1.555	12.347	-2.54450	1529.80000	.13640	.13560	.13520	.13540	.13540	.13530	.13530	650.95000
1.556	14.439	-2.54140	1530.50000	.13200	.13190	.13190	.13180	.13200	.13190	.13190	651.25000
1.556	16.581	-2.54020	1529.80000	.13000	.13030	.13020	.13020	.13060	.13080	.13030	650.95000
1.556	18.676	-2.53970	1529.10001	.13150	.13150	.13170	.13180	.13200	.13200	.13190	650.65000
1.556	20.709	-2.53960	1533.39999	.12890	.12890	.12860	.12840	.12810	.12810	.12850	652.45000
1.556	22.795	-2.53390	1534.10001	.12290	.12310	.12310	.12330	.12280	.12270	.12280	652.75000
1.556	24.860	-2.53210	1534.80000	.11520	.11470	.11520	.11560	.11470	.11500	.11490	653.05000
1.556	26.891	-2.52850	1538.30000	.11270	.11300	.11270	.11250	.11250	.11260	.11300	654.95000
	GRADIENT	-.00002	.34927	.00002	-.00003	-.00013	-.00013	-.00010	-.08013	-.00010	.14963

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

(BETR56) (02 AUG 76)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8800 IN. YMRP = .0800 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RUN NO. 341/ 0 RM/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PK	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	OMP5/
1.936	-.022	-2.88920	1833.20000	.06040	.06050	.06040	.06040	.06040	.06050	.06050	657.39000
1.936	1.963	-2.89100	1833.20000	.06080	.06100	.06100	.06090	.06040	.06050	.06050	657.39000
1.936	4.024	-2.88970	1832.50000	.06020	.06060	.06060	.06100	.06070	.06070	.06060	657.14000
1.936	6.082	-2.88920	1833.20000	.06110	.06130	.06120	.06140	.06120	.06130	.06110	657.39000
1.936	8.143	-2.88990	1833.20000	.06020	.06010	.06040	.06010	.06040	.06010	.06020	657.39000
1.936	10.201	-2.88880	1833.20000	.05810	.05870	.05820	.05810	.05810	.05800	.05810	657.39000
1.936	12.234	-2.88860	1833.20000	.05630	.05640	.05670	.05670	.05650	.05700	.05660	657.39000
1.936	14.322	-2.88650	1833.20000	.05370	.05390	.05410	.05390	.05410	.05400	.05380	657.39000
1.936	16.455	-2.88490	1834.00000	.05390	.05380	.05380	.05380	.05360	.05350	.05400	657.65000
1.936	18.540	-2.88260	1832.50000	.05320	.05320	.05380	.05150	.05150	.05190	.05190	657.14000
1.936	20.559	-2.88050	1832.50000	.05130	.04938	.04970	.04980	.04970	.04960	.04960	657.14000
1.936	22.642	-2.87670	1832.50000	.04940	.05030	.05020	.05020	.04990	.05010	.05020	657.39000
1.936	24.702	-2.87470	1833.20000	.05000	.04850	.04820	.04860	.04840	.04860	.04860	657.14000
1.936	25.727	-2.87310	1832.50000	.04870	.04850	.04800	.04815	.04807	.04807	.04802	657.14000
1.936	GRADIENT	-.00012	-.17410	-.00005	.00002	.00005	.00015	.00007	.00007	.00002	-.06278

TABULATED DATA - 0A181 (ARC 11-97-87-094)

(BE7957) (02 AUG 76)

ARC 11-97-87-094 0A181 ORBITER

REFERENCE DATA

SREF = 2698.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0306

BETA =
AIRROW =

.000 ELEVON = .000
.000 BOFLAP = -7.170

PARAMETRIC DATA

RUN NO. 264 0 RV/L = 4.02 GRADIENT INTERVAL = -5.08/ 5.08

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
.560	.085	.19720	2546.89999	.77390	.77358	.77270	.77380	.77390	.77350	.76650	451.50000
.560	2.122	.20750	2546.89999	.77320	.77340	.77430	.77330	.77270	.77290	.76900	452.09000
.561	4.171	.20970	2547.60001	.77320	.77360	.77380	.77360	.77310	.77320	.77090	452.70000
.560	6.231	.20960	2547.60001	.77300	.77370	.77350	.77340	.77280	.77310	.77170	452.10000
.561	8.311	.21698	2547.60001	.77280	.77340	.77310	.77268	.77310	.77290	.77280	452.79800
.560	10.317	.21480	2548.29999	.77250	.77250	.77190	.77280	.77310	.77330	.77250	452.11000
.561	12.478	.21150	2548.29999	.77250	.77210	.77200	.77280	.77140	.77190	.77250	452.71000
.561	14.583	.22740	2549.00000	.77040	.77120	.77170	.77108	.77080	.77050	.77180	453.32000
.561	16.688	.22060	2549.00000	.76800	.76900	.76840	.76850	.76820	.76820	.77810	453.32000
.559	18.794	.21940	2549.00000	.76490	.76544	.76510	.76550	.76510	.76550	.76830	451.53000
.561	20.901	.20740	2549.00000	.76190	.76210	.76350	.76170	.76240	.76170	.76680	453.32000
.559	22.986	.20560	2549.00000	.75770	.75720	.75790	.75830	.75820	.76260	.75920	450.93000
.560	25.067	.21320	2549.00000	.75340	.75428	.75400	.75380	.75380	.75410	.75490	452.72000
.561	26.046	.16600	2549.00000	.74920	.74920	.74910	.75820	.74970	.75080	.75490	453.32000
	GRADIENT	.00306	.17149	.00005	.00002	.00027	.00005	.00020	.00007	.00108	.29368

RUN NO. 342/ 0 RV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.08

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	Q(PSF)
1.996	.023	.84120	1804.70000	.05980	.05980	.05990	.05960	.05960	.05980	.06010	657.90000
1.996	1.955	.84220	1835.39999	.06080	.06120	.06110	.06110	.06120	.06110	.06120	658.15000
1.996	4.020	.84280	1835.39999	.06290	.06300	.06310	.06310	.06260	.06270	.06250	658.15000
1.996	6.080	.84260	1836.10001	.06190	.06170	.06180	.06160	.06170	.06190	.06180	658.41000
1.996	8.138	.84160	1836.10001	.05940	.05940	.05980	.05930	.05950	.05940	.05950	658.41000
1.996	10.197	.84270	1835.39999	.05740	.05750	.05760	.05738	.05740	.05740	.05770	658.15000
1.996	12.231	.84080	1836.10001	.05650	.05650	.05660	.05650	.05650	.05620	.05670	658.41000
1.995	14.321	.83910	1836.10001	.05450	.05460	.05430	.05450	.05450	.05420	.05470	658.66000
1.995	16.459	.83750	1835.39999	.05290	.05280	.05280	.05280	.05270	.05280	.05320	658.15000
1.995	18.545	.83590	1836.10001	.05350	.05360	.05320	.05310	.05310	.05310	.05320	658.41000
1.996	2.646	.83030	1837.50000	.04980	.04990	.04970	.04980	.04980	.04980	.04980	658.91000
1.996	24.706	.82670	1838.89999	.04680	.04678	.04680	.04780	.04720	.04680	.04680	658.42000
1.996	25.731	.82420	1837.50000	.04610	.04610	.04610	.04620	.04610	.04620	.04610	658.91000
	GRADIENT	.00040	.17191	.00077	.00079	.00079	.00087	.00074	.00072	.00059	.06139

(BETR581 (02 AUG 76)

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER

PARAMETRIC DATA

BETA = 2.000° ELEVON = .000
 AIRLON = .088 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BRP = 936.8900 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

RUN NO. 27/ 0° RNVL = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
.561	.100	2.25660	2546.8899	.7740	.7720	.7730	.7730	.7730	.7730	.7680	452.69000
.561	2.133	2.28040	2547.60001	.7710	.7730	.7720	.7720	.7720	.7720	.7690	453.89000
.561	4.185	2.29430	2547.60001	.7720	.7720	.7720	.7720	.7720	.7720	.7710	452.70000
	GRADIENT	.01069	.17105	-.00039	-.00005	-.00017	-.00002	-.08034	-.00029	.00073	.00155

RUN NO. 343/ 0° RNVL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
1.996	-.027	1.23520	1838.20000	.05970	.05940	.05930	.05830	.05950	.05840	.05980	659.17000
1.996	1.964	1.23800	1837.50000	.05860	.05840	.05870	.05860	.05850	.05910	.05860	658.91000
1.996	4.026	1.26270	1838.20000	.06040	.06030	.06010	.06030	.06020	.06030	.06040	659.17000
1.996	6.083	1.22200	1837.50000	.05980	.06020	.06040	.05990	.06040	.06040	.06020	658.91000
1.996	8.141	1.23130	1838.20000	.05940	.05920	.05950	.05930	.05940	.05940	.05910	659.17000
1.996	10.202	1.25820	1837.50000	.05690	.05710	.05680	.05690	.05680	.05700	.05680	658.91000
1.996	12.238	1.26760	1838.20000	.05540	.05570	.05540	.05550	.05550	.05560	.05550	659.17000
1.996	14.324	1.26890	1837.50000	.05380	.05270	.05340	.05310	.05300	.05310	.05280	658.91000
1.996	16.460	1.26700	1838.20000	.05200	.05200	.05160	.05280	.05210	.05190	.05220	659.17000
1.996	18.545	1.27830	1837.50000	.05350	.05360	.05310	.05330	.05360	.05340	.05310	658.91000
1.996	20.561	1.28240	1838.20000	.05020	.05020	.05060	.05060	.05050	.05060	.05060	659.17000
1.996	22.641	1.27670	1837.50000	.04920	.04920	.04950	.04960	.04970	.04950	.04920	658.91000
1.996	24.782	1.27740	1837.50000	.04710	.04738	.04730	.04788	.04750	.04750	.04750	658.91000
1.996	25.728	1.28860	1837.50000	.04890	.04890	.04900	.04850	.04860	.04820	.04810	658.91000
	GRADIENT	-.00066	.00200	.09018	.00023	.00020	.00025	.00018	.00022	.00015	.00075

(BETRE55A (02 AUG 76.)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALLRON = -7.178

TABULATED DATA - 0A161 (ARC 11-97-87-09A)

ARC 11-97-87-09A 0A161 ORBITER

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0300 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

RUN NO. 344/ 0 RM/L = 3.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
1.996	1.093	4.27138	1836.20000	.05930	.05930	.05960	.05960	.05960	.05920	.05920	659.17000
1.996	1.960	4.26780	1835.80000	.05870	.05820	.05830	.05830	.05820	.05830	.05800	658.66000
1.996	4.016	4.25280	1837.50000	.05770	.05770	.05780	.05780	.05778	.05770	.05780	658.91000
1.996	6.083	4.25910	1837.50000	.05830	.05840	.05810	.05820	.05790	.05800	.05810	658.91000
1.996	8.143	4.25630	1836.80000	.05780	.05770	.05780	.05780	.05780	.05770	.05750	658.66000
1.996	10.198	4.26710	1837.50000	.05690	.05660	.05660	.05630	.05670	.05680	.05680	658.91000
1.996	12.240	4.26480	1837.50000	.05490	.05490	.05490	.05490	.05510	.05480	.05470	658.91000
1.996	14.321	4.26900	1837.50000	.05460	.05470	.05460	.05450	.05450	.05460	.05420	658.91000
1.996	16.456	4.27200	1836.80000	.05380	.05380	.05380	.05370	.05380	.05370	.05370	658.66000
1.996	18.548	4.27660	1836.80000	.05230	.05230	.05230	.05220	.05230	.05230	.05230	658.66000
1.996	20.559	4.28010	1837.50000	.05130	.05160	.05130	.05150	.05140	.05140	.05150	658.91000
1.996	22.636	4.28400	1837.50000	.04960	.04960	.04960	.04960	.04990	.04970	.04980	658.66000
1.996	24.698	4.28970	1838.89999	.04750	.04750	.04710	.04740	.04740	.04750	.04750	658.42000
1.996	25.724	4.29230	1840.30000	.04590	.04580	.04580	.04630	.04630	.04630	.04630	659.93000
	GRADIENT			.00039	.00039	.00044	.00044	.00047	.00037	.00034	.06325

RUN NO. 336/ 0 RM/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	PT1/PT	PT2/PT	PT3/PT	PT4/PT	PT5/PT	PT6/PT	PT7/PT	0(PSF)
2.249	1.093	4.26120	2030.60001	.03690	.03690	.03690	.03690	.03660	.03690	.03670	622.66000
2.249	1.952	4.25800	2027.00000	.03620	.03600	.03620	.03590	.03590	.03620	.03590	621.58000
2.249	4.008	4.25510	2027.70000	.03540	.03550	.03540	.03570	.03560	.03560	.03550	621.79000
2.249	6.059	4.25710	2033.39999	.03520	.03520	.03530	.03550	.03550	.03550	.03550	623.93000
2.249	8.118	4.25830	2035.50000	.03410	.03370	.03360	.03360	.03360	.03340	.03340	624.18000
2.249	12.208	4.25970	2035.20000	.03040	.03050	.03040	.03080	.03070	.03070	.03070	624.39000
2.249	14.269	4.26200	2036.20000	.02970	.02970	.02960	.02960	.02950	.02980	.02950	624.39000
2.249	16.396	4.26480	2036.89999	.02990	.02990	.02980	.02980	.02980	.02950	.02950	624.61000
2.249	18.462	4.26740	2036.89999	.02990	.02990	.02980	.02980	.02980	.02950	.02950	624.61000
2.249	22.553	4.27820	2036.89999	.02860	.02860	.02860	.02880	.02860	.02880	.02830	624.61000
2.249	24.606	4.28370	2036.89999	.02830	.02870	.02870	.02860	.02850	.02870	.02830	624.61000
2.249	24.953	4.28330	2036.89999	.02850	.02820	.02820	.02820	.02860	.02850	.02830	624.61000
	GRADIENT			.00037	.00027	.00037	.00029	.00025	.00032	.00029	.21249

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OF POOR QUALITY

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES.

1EE78031 (02 AUG 76)

PARAMETRIC DATA

BETA = -9.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q13/OC	Q23/OC	Q33/OC
1.200	.000	-5.00000	2002.91339	828.82202	1166.56922	.56558	.56376	.79897	.79879	.78720
2.000	.000	-5.00000	2009.58676	828.57557	1166.22134	.56971	.56971	.79399	.79309	.79139
4.000	.000	-5.00000	2012.39209	829.41618	1157.40450	.57529	.57529	.78674	.78643	.78453
6.000	.000	-5.00000	2007.30058	828.01813	1165.43674	.57498	.57498	.77880	.77841	.77737
8.000	.000	-5.00000	2005.18105	827.76498	1165.08044	.57707	.57707	.78284	.78274	.78075
10.000	.000	-5.00000	1999.63934	826.38300	1163.13528	.57930	.57930	.78593	.78563	.78380
12.000	.000	-5.00000	2001.45516	826.74883	1163.65021	.58870	.58870	.79575	.79575	.79417
14.000	.000	-5.00000	2001.00822	826.64798	1163.50826	.59566	.59566	.80965	.80965	.80806
16.000	.000	-5.00000	1993.43224	826.30900	1163.03114	.60478	.60478	.82294	.82294	.82112
18.000	.000	-5.00000	2003.10529	827.20448	1164.29153	.62421	.62421	.83459	.83459	.83353
20.000	.000	-5.00000	2000.66002	826.62385	1163.47430	.63711	.63711	.84171	.84171	.84008
22.000	.000	-5.00000	1995.12405	825.65847	1152.11552	.64754	.64754	.84946	.84946	.84682
24.000	.000	-5.00000	1995.54181	825.41649	1161.77493	.66900	.66900	.85749	.85749	.85499
GRADIENT		.00000	.86967	.14854	.20906	.00243	.00237	.00305	.00309	.00314

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q13/OC	Q23/OC	Q33/OC
1.550	.000	-5.00000	1578.31139	400.01855	1042.32884	.67558	.66552	.92104	.91198	.90419
2.000	.000	-5.00000	1578.99117	400.18729	1042.76854	.67433	.66373	.91605	.90345	.89395
4.000	.000	-5.00000	1577.32025	399.78399	1041.71767	.67750	.66680	.91515	.90445	.89397
6.000	.000	-5.00000	1577.34309	399.79176	1041.73791	.68306	.67395	.91349	.90439	.89131
8.000	.000	-5.00000	1578.35884	400.03287	1042.36615	.68801	.68083	.91516	.90803	.89087
10.000	.000	-5.00000	1575.77289	399.39394	1043.70126	.68733	.68372	.91718	.90984	.89417
12.000	.000	-5.00000	1575.64384	399.36981	1040.63841	.69788	.69192	.91619	.91023	.89656
14.000	.000	-5.00000	1575.95380	399.44687	1040.83922	.70436	.69780	.91814	.91158	.89932
16.000	.000	-5.00000	1575.97449	399.45256	1040.85405	.70880	.70365	.92045	.91530	.90274
18.000	.000	-5.00000	1576.27609	399.52647	1041.04663	.71607	.71163	.92078	.91637	.90578
20.000	.000	-5.00000	1575.81270	399.41241	1040.74942	.72139	.71673	.91690	.91226	.90120
22.000	.000	-5.00000	1575.80844	399.41526	1040.75685	.72514	.72068	.91129	.90683	.89841
24.000	.000	-5.00000	1576.42549	399.57412	1041.17079	.73009	.72535	.90508	.90034	.89672
GRADIENT		.00000	-.24779	-.05863	-.15279	.00045	.00004	-.00147	-.00188	-.00005

(EE7803) (02 AUG 75)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
 ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750
 ALPHA
 .000
 2.000
 4.000
 6.000
 8.000
 10.000
 12.000
 14.000
 16.000
 18.000
 20.000
 22.000
 24.000
 GRADIENT

BETA
 -5.00000 1843.42418
 -5.00000 1650.93587
 -5.00000 1650.24094
 -5.00000 1649.94432
 -5.00000 1650.82304
 -5.00000 1650.44762
 -5.00000 1651.41377
 -5.00000 1651.02856
 -5.00000 1650.14075
 -5.00000 1650.84254
 -5.00000 1651.38724
 -5.00000 1651.57825
 -5.00000 1651.58163
 .00000 .20419

PT
 309.79275 1066.72121
 310.08348 1067.72222
 309.94633 1067.25003
 309.89394 1067.06963
 310.06269 1067.65071
 309.98747 1067.59171
 310.17477 1068.03642
 310.09678 1067.76807
 309.92978 1067.19304
 310.06318 1067.65240
 310.16493 1068.00276
 310.20011 1068.12389
 310.20077 1068.12617
 .03840 .13221

021/OC
 .67081
 .67143
 .67542
 .68254
 .69212
 .69943
 .70515
 .70993
 .71493
 .72339
 .72834
 .73645
 .74121
 .73190
 .73343
 .00115

011/OC
 .68578
 .68981
 .69311
 .69626
 .70250
 .70857
 .71343
 .71853
 .72339
 .72834
 .73645
 .74121
 .73190
 .73343
 .00183

031/OC
 .63755
 .63544
 .64106
 .65055
 .65357
 .67357
 .68183
 .68944
 .69673
 .70398
 .71048
 .71132
 .71055
 .00088

013/OC
 .93716
 .93841
 .93683
 .93385
 .93669
 .94105
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 .93978
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 .93048
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023/OC
 .92220
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 .92831
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 .93418
 .93043
 .92618
 .92204
 .92117
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 -.00077

033/OC
 .88994
 .88394
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 .88794
 .90016
 .90515
 .90781
 .91069
 .91215
 .91084
 .90533
 .90058
 .88943
 -.00134

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000
 ALPHA
 .000
 2.000
 4.000
 6.000
 8.000
 10.000
 12.000
 14.000
 16.000
 18.000
 20.000
 22.000
 24.000
 GRADIENT

BETA
 -5.00000 1847.06216
 -5.00000 1848.00623
 -5.00000 1847.42177
 -5.00000 1846.95721
 -5.00000 1846.99805
 -5.00000 1846.48946
 -5.00000 1846.51515
 -5.00000 1846.62762
 -5.00000 1846.35066
 -5.00000 1846.86618
 -5.00000 1847.20576
 -5.00000 1846.00110
 .00000 .08990

PT
 235.97826 1095.04305
 236.10478 1095.63014
 236.02650 1095.27618
 235.96252 1094.97044
 235.96757 1094.99344
 235.89915 1094.67596
 235.90250 1094.69148
 235.91658 1094.75682
 235.83774 1094.38096
 235.87904 1094.58261
 235.94551 1094.89108
 235.98682 1095.09203
 235.83439 1094.37541
 .01256 .05829

021/OC
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 .73144
 .73372
 .74312
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 .76907
 .76932
 .76932
 .76932
 .76932
 .76932
 .00213

011/OC
 .75077
 .75836
 .75837
 .76115
 .76579
 .76632
 .76653
 .76907
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031/OC
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 .74257
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013/OC
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023/OC
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 .97591
 .98102
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033/OC
 .91281
 .90044
 .90265
 .92835
 .93628
 .94095
 .94676
 .94693
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 .94563
 .94470
 .93359
 .92143
 -.00254

(EE7803) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0380

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	2.250	2.500	2.750	3.000	3.250	3.500	3.750	4.000	4.250	4.500	4.750	5.000
ALPHA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BETA	-9.00000	2051.52133	177.43511	1064.93391	82083	78449	78449	78449	78449	78449	78449	78449
PT	1498.56390	1497.87276	1497.09436	1496.31596	1495.53756	1494.75916	1493.98076	1493.20236	1492.42396	1491.64556	1490.86716	1490.08876
P	87.64465	87.60338	87.56211	87.52084	87.47957	87.43830	87.39703	87.35576	87.31449	87.27322	87.23195	87.19068
OCOMP	659.62552	659.31491	659.00430	658.69369	658.38308	658.07247	657.76186	657.45125	657.14064	656.83003	656.51942	656.20881
011/OC	.82083	.82366	.82649	.82932	.83215	.83498	.83781	.84064	.84347	.84630	.84913	.85196
021/OC	.78449	.78449	.78449	.78449	.78449	.78449	.78449	.78449	.78449	.78449	.78449	.78449
031/OC	.69756	.70283	.70810	.71337	.71864	.72391	.72918	.73445	.73972	.74499	.75026	.75553
013/OC	1.05495	1.05586	1.05677	1.05768	1.05859	1.05950	1.06041	1.06132	1.06223	1.06314	1.06405	1.06496
023/OC	1.04861	1.04952	1.05043	1.05134	1.05225	1.05316	1.05407	1.05498	1.05589	1.05680	1.05771	1.05862
033/OC	.95167	.95094	.95021	.94948	.94875	.94802	.94729	.94656	.94583	.94510	.94437	.94364

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	2.500	2.750	3.000	3.250	3.500	3.750	4.000	4.250	4.500	4.750	5.000
ALPHA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BETA	-5.00000	1498.56390	1497.87276	1497.09436	1496.31596	1495.53756	1494.75916	1493.98076	1493.20236	1492.42396	1491.64556
PT	1498.56390	1497.87276	1497.09436	1496.31596	1495.53756	1494.75916	1493.98076	1493.20236	1492.42396	1491.64556	1490.86716
P	87.64465	87.60338	87.56211	87.52084	87.47957	87.43830	87.39703	87.35576	87.31449	87.27322	87.23195
OCOMP	659.62552	659.31491	659.00430	658.69369	658.38308	658.07247	657.76186	657.45125	657.14064	656.83003	656.51942
011/OC	.88783	.88652	.88521	.88390	.88259	.88128	.87997	.87866	.87735	.87604	.87473
021/OC	.85664	.85796	.85928	.86060	.86192	.86324	.86456	.86588	.86720	.86852	.86984
031/OC	.74477	.74911	.75345	.75779	.76213	.76647	.77081	.77515	.77949	.78383	.78817
013/OC	1.12289	1.12242	1.12195	1.12148	1.12101	1.12054	1.12007	1.11960	1.11913	1.11866	1.11819
023/OC	1.09371	1.09387	1.09403	1.09419	1.09435	1.09451	1.09467	1.09483	1.09499	1.09515	1.09531
033/OC	.97584	.98401	.99218	1.00035	1.00852	1.01669	1.02486	1.03303	1.04120	1.04937	1.05754

(EE7803) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
ALFON = .000 BOFLAP = -3.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORDLER + RAKES

REFERENCE DATA

SREF = 2690.000 SQ. FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8800 IN. YMRP = .0200 IN. YQ
BREF = 935.6800 IN. ZMRP = 375.0800 IN. ZQ
SCALE = .0300

RNKL = 1.93 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	021/OC	031/OC	013/OC	023/OC	033/OC
3.000	0.000	-5.00000	1935.56339	51.10074	565.26348	.97374	.79130	1.24658	1.20893	1.02648
2.000	0.000	-5.00000	1935.15036	51.09178	565.12438	.97972	.80754	1.24898	1.21341	1.04123
4.000	0.000	-5.00000	1935.07675	51.11307	565.36988	.98553	.83115	1.25190	1.21857	1.06319
6.000	0.000	-5.00000	1935.50783	51.12482	565.48977	.98727	.84549	1.25147	1.21875	1.07697
8.000	0.000	-5.00000	1936.47981	51.12357	565.47600	.98963	.86794	1.25335	1.21796	1.09627
10.000	0.000	-5.00000	1936.30977	51.12127	565.45056	.98761	.87268	1.25150	1.20917	1.09424
12.000	0.000	-5.00000	1936.00462	51.11145	565.34191	.98530	.88298	1.25367	1.20242	1.10801
14.000	0.000	-5.00000	1935.75789	51.09733	565.18574	.98430	.89408	1.25387	1.19640	1.12618
16.000	0.000	-5.00000	1935.34929	51.08156	565.01133	.98198	.89753	1.25183	1.18662	1.10418
18.000	0.000	-5.00000	1935.29300	51.07934	564.98677	.98095	.89675	1.24912	1.18124	1.09704
20.000	0.000	-5.00000	1934.35158	51.05967	564.76923	.98103	.89529	1.24162	1.17355	1.08781
22.000	0.000	-5.00000	1934.81860	51.07553	564.94459	.98085	.89285	1.23148	1.16535	1.07736
24.000	0.000	-5.00000	1934.05588	51.04761	564.63582	.97697	.89261	1.21688	1.15457	1.07020
GRADIENT		.00000	.12834	.00388	.03410	.00320	.00396	.00133	.08241	.00918

RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	021/OC	031/OC	013/OC	023/OC	033/OC
3.500	.000	-5.00000	2547.37308	33.36888	508.68840	1.01025	.77431	1.25856	1.24920	1.01325
2.000	0.000	-5.00000	2547.81790	33.37489	508.70000	1.01947	.79848	1.30482	1.25586	1.03487
4.000	0.000	-5.00000	2546.94196	33.36394	508.53317	1.02729	.82809	1.31220	1.26244	1.06325
6.000	0.000	-5.00000	2547.58006	33.37128	508.64510	1.02658	.84776	1.31220	1.25924	1.08050
8.000	0.000	-5.00000	2547.17203	33.36708	508.58098	1.02583	.86751	1.31440	1.25613	1.09786
10.000	0.000	-5.00000	2551.36157	33.42099	509.40276	1.02265	.87461	1.31819	1.24858	1.10854
12.000	0.000	-5.00000	2555.54724	33.47840	510.24735	1.02243	.89265	1.32060	1.24468	1.11490
14.000	0.000	-5.00000	2558.82321	33.51909	511.88791	1.02017	.90526	1.32017	1.23466	1.12012
16.000	0.000	-5.00000	2563.65443	33.58292	511.87092	1.01979	.90626	1.31506	1.22212	1.10849
18.000	0.000	-5.00000	2567.71115	33.63562	512.67408	1.01689	.90631	1.30893	1.21284	1.09747
20.000	0.000	-5.00000	2572.38071	33.69739	513.61562	1.01117	.89487	1.30020	1.20786	1.08799
22.000	0.000	-5.00000	2578.11011	33.77192	514.75453	1.01475	.88740	1.27919	1.18925	1.07157
24.000	0.000	-5.00000	2578.93777	33.78332	514.92529	1.00508	.88267	1.26040	1.17514	1.06047
GRADIENT		.00000	.10773	.00123	.01880	.00426	.01345	.00341	.08331	.01250

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-894 0A161 ORBITER + RAKES

(EE7804) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6809 IN. XO
 LREF = 474.8000 IN. YMRP = 0080. IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILERON = .000 BDFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
ALPHA										
0.000	-2.00000	1574.43616	398.83030	1039.23260	.69316	.67692	.67692	.93803	.92942	.91319
2.000	-2.00000	1573.92516	398.70513	1038.90645	.68943	.67942	.67942	.93443	.92190	.91197
4.000	-2.00000	1573.05887	398.48754	1038.33949	.69460	.68477	.68477	.93341	.92179	.91195
6.000	-2.00000	1573.57761	398.62070	1038.68646	.70222	.69075	.69075	.93339	.92332	.91185
8.000	-2.00000	1574.31860	398.81203	1039.18580	.71471	.69835	.69835	.93829	.93043	.91407
10.000	-2.00000	1574.64066	398.88485	1039.37476	.72082	.70585	.70585	.93967	.93255	.91758
12.000	-2.00000	1574.84332	398.93706	1039.51079	.72440	.71108	.71108	.93863	.93267	.91936
14.000	-2.00000	1574.59084	398.87753	1039.34986	.72999	.71862	.71862	.94089	.93452	.92315
16.000	-2.00000	1575.31898	398.95065	1039.83284	.73556	.72510	.72510	.94157	.93448	.92636
18.000	-2.00000	1575.34929	399.06568	1039.84598	.74139	.73010	.73010	.93970	.93449	.91492
20.000	-2.00000	1574.16409	396.76549	1038.06374	.74612	.73526	.73526	.93187	.92297	.91568
22.000	-2.00000	1574.15891	398.76576	1039.06838	.74714	.73926	.73926	.92911	.92320	.91556
24.000	-2.00000	1574.84804	398.94400	1039.92890	.75684	.74530	.74530	.92910	.92320	.91556
GRADIENT					.00111	.00196	.00196	-.00116	-.00191	-.00031

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
ALPHA										
0.000	-2.00000	1650.91153	310.07685	1067.69946	.69653	.68212	.68212	.94874	.93130	.89569
2.000	-2.00000	1652.84775	310.44413	1068.98416	.69813	.68980	.68980	.94979	.92804	.88991
4.000	-2.00000	1653.85585	310.63168	1069.60992	.71951	.69096	.69096	.94941	.93086	.89197
6.000	-2.00000	1654.30829	310.72412	1069.92824	.72361	.71065	.71065	.95039	.93743	.90448
8.000	-2.00000	1653.79941	310.62094	1069.57295	.71798	.68866	.68866	.95264	.93964	.91040
10.000	-2.00000	1654.31114	310.72391	1069.92749	.72630	.70950	.70950	.9513	.94382	.91742
12.000	-2.00000	1655.38827	310.96964	1070.58705	.73311	.71214	.71214	.95384	.94363	.92268
14.000	-2.00000	1655.65390	310.97398	1070.78899	.73814	.71795	.71795	.95303	.94432	.92413
16.000	-2.00000	1654.93356	310.83946	1070.32539	.74209	.72572	.72572	.95352	.94495	.92434
18.000	-2.00000	1655.58614	310.96767	1070.76688	.74628	.72917	.72917	.95044	.94138	.92434
20.000	-2.00000	1657.05319	311.24283	1071.71434	.74966	.72833	.72833	.94564	.93434	.90516
22.000	-2.00000	1657.68333	311.35872	1072.11337	.75421	.73024	.73024	.94159	.93012	.90497
24.000	-2.00000	1657.51363	311.32766	1072.00642	.75886	.73338	.73338	.94013	.93039	.90497
GRADIENT					.00111	.00001	.00001	.00032	-.00011	-.00123

(EE7804) (02 AUG 76)

TABULATED DATA - 0A16L (ARC 11-97-87-084)
ARC 11-97-87-084 0A16L ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ATLON = .000 BDFLAP = -7.170

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q31/OC	Q12/OC	Q23/OC	Q33/OC
2.000	.000	-2.00000	1846.93443	235.98368	1084.69649	.75668	.76001	.67005	.93291	.96224	.90627
2.000	.000	-2.00000	1846.41615	235.83478	1094.37723	.76230	.76346	.67114	.93562	.96577	.90445
4.000	.000	-2.00000	1846.47842	235.84348	1094.41763	.76661	.76014	.67753	.93957	.96917	.90855
6.000	.000	-2.00000	1847.01898	235.91540	1094.75133	.77362	.74768	.68617	.94621	.97027	.91876
8.000	.000	-2.00000	1846.98838	235.91268	1094.73879	.77362	.75073	.70873	.94621	.96974	.92774
10.000	.000	-2.00000	1846.95099	235.91120	1094.73189	.77912	.75777	.72018	.94621	.97368	.93609
12.000	.000	-2.00000	1846.94996	235.86971	1094.93639	.78391	.76525	.72992	.94621	.97643	.94110
14.000	.000	-2.00000	1846.59160	235.85966	1094.49269	.79185	.77331	.74310	.94621	.97576	.94555
16.000	.000	-2.00000	1846.17949	235.94132	1094.87161	.79368	.78205	.75579	.94621	.97397	.94771
18.000	.000	-2.00000	1846.84877	235.89649	1094.86362	.79766	.78125	.75764	.94621	.96960	.94616
20.000	.000	-2.00000	1846.81461	235.83847	1094.82637	.80406	.78598	.75264	.94621	.96821	.93596
22.000	.000	-2.00000	1846.81461	235.83847	1094.82637	.80406	.78598	.75264	.94621	.96821	.93596
24.000	.000	-2.00000	1846.82296	235.78710	1094.15599	.80348	.78359	.74548	.94621	.96017	.91566
GRADIENT						.80893	.79048	.74928	.94621	.95676	.91566
						.80248	.00353	.00187	.00068	.00175	.00007

MACH	ALPHA	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q31/OC	Q12/OC	Q23/OC	Q33/OC
2.250	.000	-2.00000	2068.32037	175.19234	1059.48225	.83180	.78632	.69700	.90412	.95565	.90632
2.000	.000	-2.00000	2059.98480	178.16926	1059.31013	.83888	.79528	.70931	.90475	.95565	.91568
4.000	.000	-2.00000	2059.56003	178.12785	1059.09161	.84186	.80153	.71896	.90641	.95404	.92404
6.000	.000	-2.00000	2060.01712	178.16592	1059.32610	.84653	.80612	.73263	.90677	.95404	.93696
8.000	.000	-2.00000	2060.34888	178.19534	1059.49667	.85160	.81384	.74553	.90677	.95404	.94630
10.000	.000	-2.00000	2060.24348	178.18648	1059.44347	.85480	.81952	.75661	.90677	.95404	.95248
12.000	.000	-2.00000	2060.24661	178.18653	1059.44347	.85480	.81952	.75661	.90677	.95404	.95248
14.000	.000	-2.00000	2060.47052	178.20613	1059.56143	.85422	.82431	.76892	.90677	.95404	.96131
16.000	.000	-2.00000	2060.56393	178.21377	1059.68732	.85422	.82431	.76892	.90677	.95404	.96131
18.000	.000	-2.00000	2060.03616	178.16844	1059.33624	.85887	.82998	.78552	.90677	.95404	.96844
20.000	.000	-2.00000	2060.44346	178.20315	1059.54353	.86231	.82655	.78255	.90677	.95404	.95432
22.000	.000	-2.00000	2060.15353	178.17854	1059.39586	.86367	.82655	.78255	.90677	.95404	.95432
24.000	.000	-2.00000	2060.04485	178.16928	1059.34026	.86594	.82655	.78255	.90677	.95404	.95432
GRADIENT						.86594	.00375	.00549	.00146	.00269	.00443

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7804) (02 AUG 78)

REFERENCE DATA

SREF = 2690.000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ALFON = .000 BOFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
2.500	-2.00000	1497.77222	87.59769	659.27609	.86577	.81265	.69169	1.08966	1.03675	0.3340C
2.000	-2.00000	1497.76450	87.59732	659.26928	.87801	.81854	.70108	1.09188	1.04040	0.31559
4.000	-2.00000	1497.76714	87.59741	659.27081	.87848	.82723	.71726	1.09638	1.04714	0.22955
6.000	-2.00000	1497.77226	87.59619	659.26681	.88198	.83712	.73223	1.09798	1.05312	0.93717
8.000	-2.00000	1497.75372	87.59682	659.26657	.88472	.84321	.74931	1.09845	1.05697	0.95323
10.000	-2.00000	1497.67010	87.59167	659.26676	.88932	.84985	.76092	1.09873	1.05725	0.96304
12.000	-2.00000	1498.01534	87.61195	659.37941	.88840	.85298	.77779	1.09480	1.05938	0.96852
14.000	-2.00000	1494.68498	87.41497	657.89693	.88757	.85336	.78926	1.08860	1.05429	0.98419
16.000	-2.00000	1494.60895	87.41100	657.86705	.88396	.85149	.79326	1.07797	1.04550	0.98735
18.000	-2.00000	1495.08078	87.43812	658.07867	.88263	.84983	.79320	1.07009	1.03759	0.98266
20.000	-2.00000	1494.25999	87.38984	657.70778	.88216	.84914	.79701	1.06331	1.03059	0.97817
22.000	-2.00000	1494.70457	87.41660	657.90915	.87840	.84558	.79740	1.05668	1.02318	0.97500
24.000	-2.00000	1494.94550	87.43099	658.01747	.87727	.84647	.79506	1.04546	1.01466	0.96425
GRADIENT	.00000	-.00127	-.00007	-.00052	.00268	.00359	.00639	.00168	.00260	.00548

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
3.000	-2.00000	1942.79845	51.29598	567.38300	.99235	.91004	.71589	1.20960	1.12728	0.3340C
2.000	-2.00000	1938.96528	51.22303	566.57606	.99882	.91861	.73443	1.21436	1.13535	0.33223
4.000	-2.00000	1937.25540	51.15163	565.78629	1.00021	.92469	.74761	1.21345	1.13535	0.94997
6.000	-2.00000	1932.01018	51.02006	564.33104	1.00398	.93462	.78137	1.21584	1.14648	0.96086
8.000	-2.00000	1931.75523	51.01216	564.24371	1.00424	.94098	.79316	1.21260	1.14934	0.99324
10.000	-2.00000	1932.19310	51.02143	564.34621	1.00594	.94909	.81020	1.21139	1.15454	1.00152
12.000	-2.00000	1932.51784	51.02795	564.41837	1.00744	.95455	.83116	1.20565	1.15625	1.01585
14.000	-2.00000	1931.38788	50.98654	563.96830	1.00944	.95082	.84712	1.19796	1.14754	1.04465
16.000	-2.00000	1932.10713	51.00635	564.17945	.99656	.94438	.85208	1.18808	1.13591	1.04361
18.000	-2.00000	1931.43526	50.99056	564.00479	.99104	.93631	.84896	1.17618	1.12445	1.03409
20.000	-2.00000	1931.86768	50.99784	564.08523	.98749	.93189	.84638	1.16685	1.11123	1.02575
22.000	-2.00000	1932.01346	51.00587	564.17412	.97830	.92270	.84221	1.15179	1.09619	1.01570
24.000	-2.00000	1931.72012	50.99929	564.10132	.96844	.91310	.83693	1.13355	1.08031	1.00415
GRADIENT	.00000	-1.38574	-.03609	-.39918	.00196	.00366	.00794	.00896	.00266	.00691

(EE7804) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
ATLIRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A15L (ARC 11-97-87-094)

ARC 11-97-87-094 0A15L ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 50.00 FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RM/L = 1.99 GRADIENTS INTERVAL = -5.00X 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	Q11/QC	Q21/QC	Q31/QC	Q13/QC	Q23/QC	Q33/QC
3.500	0.000	-2.00000	2608.07135	34.16512	520.74471	1.04111	.93295	.68251	1.24982	1.14166	.89122
4.000	2.000	-2.00000	2609.47937	34.18332	521.03742	1.04525	.94643	.70154	1.25392	1.15510	.91020
5.000	4.000	-2.00000	2610.52899	34.19799	521.24570	1.04705	.95845	.72950	1.25394	1.16535	.93540
6.000	6.000	-2.00000	2614.11072	34.24500	521.96236	1.04738	.96512	.76783	1.25253	1.17028	.97298
8.000	8.000	-2.00000	2614.27722	34.24722	521.98606	1.04714	.97473	.78257	1.24993	1.17752	.98535
10.000	10.000	-2.00000	2619.19357	34.31230	522.27662	1.04203	.97697	.79936	1.24303	1.17802	1.00042
12.000	12.000	-2.00000	2615.71823	34.26553	522.27662	1.04434	.98717	.82978	1.24050	1.17883	1.02594
14.000	14.000	-2.00000	2617.88397	34.29432	522.71407	1.03733	.97223	.84051	1.26877	1.16367	1.03194
16.000	16.000	-2.00000	2615.78174	34.26626	522.28640	1.02732	.95783	.84056	1.21300	1.14351	1.02624
18.000	18.000	-2.00000	2617.10403	34.28431	522.56139	1.02395	.95009	.83833	1.20277	1.12891	1.01715
20.000	20.000	-2.00000	2615.61575	34.25406	522.25275	1.01619	.94014	.83194	1.18991	1.11387	1.00567
22.000	22.000	-2.00000	2619.49889	34.31592	523.04321	1.00541	.93035	.82447	1.17320	1.09813	.99226
24.000	24.000	-2.00000	2624.04565	34.37497	523.94328	.98825	.91442	.81531	1.15161	1.07678	.97567
GRADIENT		.00000	.51442	.00822	.12524	.00148	.00637	.01175	.00103	.00582	.01129

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(EE7805) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.6880 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6880 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RIN/L = 4.23 GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
.600	.000	.00000	2635.13434	2067.16883	558.96451	.89398	.89446	.89305	1.12537	1.12585	1.12444
2.000	.000	.00000	2636.45282	2067.42532	569.02730	.88609	.88607	.88885	1.11089	1.11086	1.11063
4.000	.000	.00000	2638.36844	2068.84036	569.52808	.89006	.89041	.88996	1.11298	1.11333	1.11288
6.000	.000	.00000	2635.83572	2067.04514	568.79059	.87772	.87845	.87976	1.09415	1.09415	1.09542
8.000	.000	.00000	2635.20016	2067.24875	568.95142	.88733	.88617	.88669	1.09338	1.09733	1.09786
10.000	.000	.00000	2635.93494	2067.10458	568.83035	.88837	.88977	.88717	1.08649	1.08789	1.08529
12.000	.000	.00000	2635.46613	2066.78952	568.67661	.90760	.90722	.90778	1.10082	1.10055	1.10110
14.000	.000	.00000	2636.11768	2067.19876	568.91891	.93785	.93643	.93606	1.11316	1.11163	1.11337
16.000	.000	.00000	2636.08533	2067.16296	568.92236	.95784	.95706	.95706	1.12025	1.11882	1.11937
18.000	.000	.00000	2638.61063	2068.99408	568.61665	1.00500	1.00620	1.00484	1.14421	1.14542	1.14406
20.000	.000	.00000	2634.47891	2065.12332	568.35958	1.03744	1.04080	1.03636	1.16084	1.16420	1.15976
22.000	.000	.00000	2650.10681	2062.55417	567.55264	1.06864	1.07253	1.06205	1.17322	1.17711	1.16663
24.000	.000	.00000	2629.67941	2061.72964	567.94977	1.10694	1.11438	1.09338	1.16684	1.19448	1.17327
GRADIENT		.00000	.55853	.41762	.14089	-.08098	-.00101	-.00077	-.00310	-.00313	-.00289

RIN/L = 4.23 GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
.900	.000	.00000	2113.98108	1249.92923	864.05185	.76875	.76181	.76156	1.02205	1.02312	1.02287
2.000	.000	.00000	2112.05286	1248.77386	863.27899	.75172	.75155	.75189	.99734	.99717	.99751
4.000	.000	.00000	2118.18836	1252.35219	863.83621	.75709	.75567	.75566	.99055	.98814	.98912
6.000	.000	.00000	2114.64374	1250.29312	864.34464	.75287	.75279	.75192	.97203	.97196	.97108
8.000	.000	.00000	2110.03122	1247.57364	862.45758	.75281	.75065	.75041	.96266	.96080	.96056
10.000	.000	.00000	2112.73361	1249.11789	863.61572	.76509	.76401	.76443	.95896	.95989	.96031
12.000	.000	.00000	2114.69836	1250.25999	864.43839	.77934	.77951	.77640	.95619	.95997	.95806
14.000	.000	.00000	2117.13947	1251.72624	865.41324	.79511	.79564	.79468	.95133	.95176	.95094
16.000	.000	.00000	2116.02139	1251.05811	864.96329	.81584	.81682	.81589	.93263	.93352	.93288
18.000	.000	.00000	2113.29510	1249.47339	863.82172	.83631	.83716	.83733	.91134	.91279	.91236
20.000	.000	.00000	2111.35150	1248.25099	863.10092	.85083	.85266	.85091	.90496	.90699	.90510
22.000	.000	.00000	2110.78241	1247.85742	862.92499	.86433	.86422	.86339	.90746	.90055	.90363
24.000	.000	.00000	2113.14288	1249.38358	863.75931	.92400	.92963	.91766	1.00870	1.01393	1.00236
GRADIENT		.00000	1.05184	.60574	.44609	-.00892	-.00153	-.00148	-.00788	-.00849	-.00844

(EE78051 (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XC
LREF = 4.74.8000 IN. YMRP = .0000 IN. YC
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200
ALPHA = .000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	041/OC	023/OC	033/OC
.00000	2003.78401	828.63679	1168.30751	.65981	.66387	.66299	.86064	.86049	.85862
.00000	2008.93002	827.95351	1165.34581	.66833	.66760	.66612	.85071	.84999	.84851
.00000	2016.96340	827.74996	1165.05922	.65813	.65721	.65605	.83721	.83629	.83513
.00000	2012.21327	823.46896	1167.47879	.67407	.67347	.67243	.83317	.83257	.83153
.00000	2011.68602	829.32592	1167.27747	.67508	.67550	.67452	.83672	.83714	.83615
.00000	2012.05740	829.42208	1167.41281	.68147	.68224	.68103	.84907	.84983	.84863
.00000	2012.68660	829.63239	1167.71867	.68911	.68904	.68808	.84907	.84983	.84863
.00000	2012.78661	823.69245	1167.79337	.69487	.69397	.69283	.84411	.84351	.84237
.00000	2011.04118	829.14474	1167.02246	.70974	.70937	.70802	.93158	.93113	.93078
.00000	2012.20638	829.51370	1167.54176	.72993	.73058	.72924	.91755	.91755	.91621
.00000	2018.50417	831.53033	1170.38017	.74589	.74706	.74493	.92707	.92825	.92611
.00000	2017.94965	831.40863	1170.30888	.76146	.76335	.76135	.93725	.93811	.93611
.00000	2014.63448	830.32520	1168.68395	.77770	.78090	.77573	.95442	.95762	.95245
.00000	2014.70765	821.22172	1168.31207	.00103	.00084	.00076	.00585	.00695	.00612

MACH = 1.400
ALPHA = .008
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	OCOMP	041/OC	021/OC	031/OC	013/OC	023/OC	033/OC
.00000	2043.25790	642.23148	1316.08347	.66633	.65867	.65783	.90343	.89376	.89453
.00000	2048.25000	643.57806	1318.84294	.67719	.67131	.67175	.89923	.89336	.89380
.00000	2046.36710	643.02779	1317.71530	.67721	.67253	.67182	.89808	.89331	.89261
.00000	2036.68442	640.56550	1312.67154	.67918	.67258	.67001	.89555	.89257	.88658
.00000	2035.48167	640.58581	1312.71315	.68522	.68047	.67480	.89471	.89471	.89504
.00000	2037.06380	640.77697	1313.10286	.68976	.68495	.68420	.90113	.89632	.89560
.00000	2032.87712	639.62427	1310.74069	.69595	.69015	.69229	.90326	.89746	.89560
.00000	2034.53185	640.07636	1311.66714	.69680	.69154	.69269	.90344	.90344	.90453
.00000	2034.88971	640.10445	1311.72469	.70602	.70117	.70222	.91213	.90728	.90833
.00000	2034.88971	638.64844	1308.74096	.72088	.71577	.71350	.91117	.91117	.90890
.00000	2029.02078	638.64844	1308.74096	.72673	.72172	.71732	.91663	.91463	.91283
.00000	2029.79141	638.90320	1309.26305	.73769	.73271	.73226	.91965	.91698	.91593
.00000	2028.09665	638.46732	1308.36984	.74509	.74071	.74056	.92131	.91694	.91678
.00000	2028.77729	638.46732	1308.36984	.00272	.00347	.00350	.00136	.00651	.00098

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OF POOR QUALITY

(EE7805) (02 AUG 76)

TABULATED DATA - 0A161 (ARC :1-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.500	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
	.000	.00000	1587.54596	401.10618	1045.16287	.71973	.71091	.69500	.94411	.93528	.91938
	2.000	.00000	1581.96228	401.46997	1046.11082	.72116	.70681	.69794	.94114	.92679	.91792
	4.000	.00000	1581.60306	401.36976	1045.84969	.72217	.70914	.69917	.94110	.92807	.91809
	6.000	.00000	1581.71835	401.39628	1045.91879	.72813	.71830	.70517	.93953	.92970	.91556
	8.000	.00000	1582.28792	401.54744	1046.31267	.73869	.73081	.71528	.94591	.93803	.92251
	10.000	.00000	1584.01578	401.96475	1047.40005	.73988	.73330	.71792	.94498	.93837	.92300
	12.000	.00000	1584.74577	402.14309	1047.85478	.74283	.73611	.72301	.94478	.93808	.92497
	14.000	.00000	1584.30254	402.03269	1047.57710	.74887	.74388	.73165	.94655	.94155	.92932
	16.000	.00000	1584.53708	402.09357	1047.73572	.75393	.74885	.73806	.94560	.94052	.92974
	18.000	.00000	1585.24020	402.26379	1048.17926	.75986	.75228	.73915	.94134	.93375	.92063
	20.000	.00000	1585.26917	402.27295	1048.20312	.76124	.75501	.74555	.93737	.93113	.92168
	22.000	.00000	1584.67165	402.12355	1047.91384	.76553	.76029	.75258	.94098	.93573	.92803
	24.000	.00000	1584.25276	402.01530	1047.53178	.77226	.76672	.75137	.94215	.93562	.92127
GRADIENT		.00000	.26428	.06590	.17171	.00061	-.00044	.00104	-.00075	-.00180	-.00032

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
	.000	.00000	1657.74608	311.37225	1072.15997	.72564	.70825	.67469	.95247	.93508	.90152
	2.000	.00000	1657.99976	311.41854	1072.31970	.72965	.70881	.67530	.94982	.92989	.89346
	4.000	.00000	1657.20947	311.27179	1071.81404	.73043	.71110	.67441	.95028	.93095	.89426
	6.000	.00000	1656.47336	311.13422	1071.34035	.73562	.72276	.68047	.95414	.94127	.90888
	8.000	.00000	1657.27676	311.28436	1071.85733	.74490	.72937	.70151	.95510	.93957	.91170
	10.000	.00000	1657.32759	311.29292	1071.88681	.74884	.73722	.71209	.95415	.94252	.91739
	12.000	.00000	1656.50383	311.14008	1071.35053	.75950	.74283	.72272	.95666	.94419	.92406
	14.000	.00000	1657.07522	311.24521	1071.72598	.76100	.75028	.73183	.95400	.94327	.92483
	16.000	.00000	1656.60486	311.15863	1071.42451	.76237	.75262	.73901	.95276	.94320	.92539
	18.000	.00000	1656.32849	311.10577	1071.24562	.76182	.75410	.72555	.94927	.93729	.91400
	20.000	.00000	1656.80373	311.19492	1071.54903	.76595	.75410	.72787	.94792	.93506	.90883
	22.000	.00000	1657.27647	311.28266	1071.85149	.77235	.76143	.73567	.94640	.93548	.90971
	24.000	.00000	1657.16254	311.26139	1071.77823	.77307	.76269	.73461	.94275	.93237	.90430
GRADIENT		.00000	-.13413	-.02512	-.08549	.00120	.00071	-.00007	-.00055	-.00103	-.00182

ABC 11-97-87-09# 0A161 ORBITER + RAKES.

REFERENCE DATA

SPREF	=	2690.0000	SQ.FT.	XPRP	=	1076.6800	IN.	XO
REF	=	474.8000	IN.	YPRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZPRP	=	375.0000	IN.	ZO
SCALE	=	.0300						

2 OF GRADIENT INTERVAL = -5.08/ 5.00

MACH. = 2.000
ALPHA

BETA.	PF	P	QCOMP.
0.0000	1847.14075	235.84824	1094.43971
0.0000	1846.77534	235.80064	1094.21881
0.0000	1847.05482	235.83535	1094.37987
0.0000	1846.70287	235.79072	1094.17278
0.0000	1846.84723	235.80916	1094.25833
0.0000	1847.73077	235.93651	1094.84930
0.0030	1847.06197	235.84267	1094.41403
0.0000	1846.76268	235.79362	1094.21408
0.0000	1846.78020	235.81972	1094.26558
0.0030	1846.62403	235.78563	1094.14917
0.0000	1846.85039	235.81953	1094.30649
0.0000	1846.82597	235.81627	1094.28134
0.0000	1845.84573	235.68645	1093.68992
0.0000	- 0.01898	- 0.0322	1093.68992
0.0000	- 0.01973	-	1093.68992

DN/1 = 3.03 GRADIENT INTERVAL = -5.00' 5.00

MACH. # 2.250
ALPHA

BETA	PT	P	QCOMP
.00000	2059.62274	178.13523	1069.13589
.00000	2058.69022	178.14101	1069.17059
.00000	2055.24142	178.10249	1068.93941
.00000	2059.67596	178.13935	1069.16425
.00000	2059.63947	178.13654	1069.14375
.00000	2059.11799	178.09175	1068.867497
.00000	2058.74341	178.05954	1068.68224
.00000	2059.55093	178.12681	1067.09737
.00000	2059.35752	178.11318	1069.00357
.00000	2058.98930	178.06789	1068.73170
.00000	2059.20343	178.09303	1068.31862
.00000	2058.94348	178.07670	1068.78462
.00000	2058.85312	178.06898	1068.73825
.00000	-.09531	-.00818	-.04911

SCIENTIFIC
CONSENT

BETA. =	.000	ELEVON =	.000
AILRON =	.000	SOFLAP =	-7.170

PARAMETRIC DATA

0.31/0C	0.13/0C	0.23/0C	0.33/0C
65948	97754	94331	88888
67818	98174	96355	89838
68943	98446	95788	90540
69670	98494	95826	91773
70886	98366	95872	91228
72510	98649	96277	92399
73960	99268	96128	92690
73340	98426	96454	92950
74449	98224	96271	93509
74461	97756	95900	92505
73894	97611	95470	91494
74158	97184	95132	90977
74532	96321	94304	90212
74539	96173	90352	00388

0.231/OC	0.13/OC	0.23/OC	0.23/OC
6.7082	1.00966	96626	8.7522
6.8315	1.01267	96641	6.8362
6.9715	1.01449	97339	8.8291
7.1171	1.01984	97767	9.1281
7.1980	1.02051	98148	9.1132
7.3637	1.02276	98582	9.2465
7.4830	1.02104	99371	9.3305
7.5775	1.01744	99938	9.5849
7.6509	1.01536	98759	9.4247
7.6578	1.01229	98337	9.5759
7.5194	1.00163	97275	9.7177
7.5817	1.00687	97648	9.2115
7.70489	9.5785	9.9693	9.5161
7.9659	0.0121	0.0273	0.0542

1EE78DBJ (02 AUG 76)

TABULATED DATA - 0A16J (ARC 11-97-87-084)
ARC 11-97-87-084 0A16J ORBITER + RAKES

REFERENCE DATA

SPEF = 2890.0000 SO.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -2.170

RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
2.500	.000	.00000	1495.02940	87.42978	656.00838	.83837	.77883	.68406	1.04495	.98552	.81865
2.000	.000	.00000	1486.07198	87.43218	658.02643	.84409	.78858	.67337	1.04922	.99371	.82850
4.000	.000	.00000	1494.35016	87.38912	657.78238	.84970	.78917	.69181	1.05138	1.00088	.83350
6.000	.000	.00000	1494.94664	87.42504	657.97271	.85425	.80507	.71016	1.05305	1.00400	.92896
8.000	.000	.00000	1495.11034	87.43490	658.04685	.86086	.81269	.72104	1.05704	1.00906	.91722
10.000	.000	.00000	1494.33298	87.38847	657.69749	.86581	.82158	.73249	1.05972	1.01550	.92540
12.000	.000	.00000	1494.98853	87.42791	657.99431	.86843	.82885	.75284	1.05665	1.01907	.94307
14.000	.000	.00000	1494.32796	87.38815	657.69506	.87158	.83350	.76574	1.05445	1.01837	.95261
16.000	.000	.00000	1494.89258	87.42212	657.95069	.87026	.83167	.77002	1.05154	1.01303	.95140
18.000	.000	.00000	1494.35973	87.39025	657.71090	.86951	.83368	.77877	1.04946	1.00964	.95472
20.000	.000	.00000	1494.85465	87.41989	657.93397	.86706	.83370	.78156	1.03893	1.00557	.95343
22.000	.000	.00000	1494.36290	87.39047	657.71252	.86136	.82695	.77575	1.02971	.99531	.94410
24.000	.000	.00000	1494.88579	87.42173	657.94775	.85465	.82282	.77364	1.01746	.98562	.93644
GRADIENT		.00000	-.16982	-.01016	-.07658	.00283	.00506	.00694	.00161	.00384	.00571

RM/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
3.000	.000	.00000	1940.37863	51.17667	566.06326	.93973	.84323	.66076	1.14132	1.04482	.85234
2.000	.000	.00000	1940.33086	51.16886	565.97688	.94723	.86882	.67658	1.14823	1.05982	.87757
4.000	.000	.00000	1939.42018	51.14571	565.72091	.95353	.87231	.69623	1.15300	1.07177	.89569
6.000	.000	.00000	1939.65381	51.15574	565.94290	.95599	.87838	.72430	1.15509	1.07546	.92139
8.000	.000	.00000	1938.91023	51.13770	565.63232	.96090	.88599	.73869	1.15552	1.08659	.93330
10.000	.000	.00000	1939.71480	51.16037	565.88296	.96351	.89394	.75790	1.15631	1.08574	.94975
12.000	.000	.00000	1939.08939	51.14639	565.72841	.96884	.90783	.76682	1.15706	1.09504	.97504
14.000	.000	.00000	1939.37943	51.15133	565.78307	.96705	.90858	.80006	1.15142	1.09296	.98444
16.000	.000	.00000	1938.79555	51.13805	565.63618	.96033	.90300	.80938	1.14094	1.08361	.98999
18.000	.000	.00000	1939.37152	51.15323	565.80401	.95473	.89979	.81425	1.12954	1.07460	.98906
20.000	.000	.00000	1939.61790	51.16009	565.87995	.94597	.89249	.81197	1.11551	1.06203	.98151
22.000	.000	.00000	1938.80849	51.13827	565.63856	.93122	.87791	.79910	1.09609	1.04279	.96397
24.000	.000	.00000	1939.35316	51.15332	565.80502	.92585	.87405	.80110	1.03636	1.03426	.96131
GRADIENT		.00000	-.28961	-.00774	-.08559	.00345	.00727	.00887	.00293	.00674	.00834

TABULATED DATA - OAIF1 (ARC 11-97-87-09%)
ARC 11-97-97-09% OAIF1 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.6800 IN.
SCALE = .07300

YMRP = 1076.6800 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

BETA = .000
A/LRON = .000
ELEVON = .000
BDFLAP = -7.178

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	011/OC	021/OC	031/OC	043/OC	053/OC
3.500	.000	.00000	2633.31985	34.57549	526.99933	.97751	.85349	.61805	1.16807	1.04405
2.000	.000	.00000	2640.01656	34.58445	527.13617	.98655	.87074	.63439	1.17696	1.06116
4.000	.000	.00000	2640.88896	34.59588	527.31057	.99302	.88551	.65933	1.18319	1.07569
6.000	.000	.00000	2644.64435	34.64481	528.05621	.99876	.89145	.69459	1.18702	1.07972
8.000	.000	.00000	2646.62357	34.67127	528.45953	1.00384	.90518	.71732	1.18916	1.09150
10.000	.000	.00000	2646.80231	34.67362	528.49525	1.00375	.91331	.74266	1.18623	1.09579
12.000	.000	.00000	2647.36554	34.68086	528.60566	1.00265	.92387	.77179	1.18131	1.10263
14.000	.000	.00000	2652.42508	34.74552	529.60644	.99426	.92147	.78506	1.16977	1.09698
16.000	.000	.00000	2653.07376	34.75490	529.73420	.98818	.91521	.80050	1.15962	1.08665
18.000	.000	.00000	2650.25250	34.71894	529.18607	.97418	.90499	.79759	1.13995	1.07076
20.000	.000	.00000	2651.57239	34.73560	529.43987	.96257	.89332	.79126	1.12517	1.05593
22.000	.000	.00000	2652.55411	34.74832	529.63383	.94710	.87865	.77957	1.10349	1.03503
24.000	.000	.00000	2651.96234	34.74070	529.51771	.92974	.86429	.76966	1.08215	1.01570
GRADIENT		.39504	.07776	.00510	.07776	.00388	.00801	.01047	.00378	.00791

(EE7806) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = .000 ECFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-87-87-094)
 ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0330

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
	.000	2.00000	2623.08527	2050.85532	567.22935	.97010	.97050	.96923	1.17939	1.17988	1.17851
	2.000	2.00000	2625.49564	2058.85480	566.64084	.93308	.93308	.93128	1.13769	1.13759	1.13589
	4.000	2.00000	2627.76524	2060.49959	567.27655	.92722	.92770	.92665	1.12655	1.12613	1.12809
	6.000	2.00000	2627.00054	2059.99554	567.00510	.94944	.94870	.94555	1.14392	1.14307	1.14392
	8.000	2.00000	2626.97894	2060.00323	566.97571	.95670	.95654	.95678	1.14277	1.14260	1.14284
	10.000	2.00000	2626.30542	2059.42654	566.87888	.97307	.97187	.97201	1.14676	1.14556	1.14570
	12.000	2.00000	2626.31223	2059.48074	566.83148	.98265	.98280	.98320	1.15221	1.15237	1.15276
	14.000	2.00000	2628.93167	2061.44455	567.54712	1.00432	1.00543	1.00531	1.15317	1.15428	1.15416
	16.000	2.00000	2627.44873	2060.24384	567.20490	1.02638	1.02634	1.02617	1.15560	1.15575	1.15538
	18.000	2.00000	2626.31006	2059.46307	566.84698	1.05958	1.06103	1.05981	1.18391	1.18445	1.18224
	20.000	2.00000	2626.65559	2059.71997	566.93661	1.10410	1.10628	1.10299	1.20335	1.20263	1.20223
	22.000	2.00000	2624.28891	2057.95145	566.33746	1.13285	1.13664	1.12835	1.22076	1.22455	1.21625
	24.000	2.00000	2623.73047	2057.53900	566.19147	1.16519	1.17416	1.15412	1.23943	1.23941	1.21935
GRADIENT		.00000	-.07975	-.09139	.01165	-.31072	-.01072	-.01054	-.01269	-.01269	-.01261

MACH = .900	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
	.000	2.00000	2112.48575	1248.91620	853.56955	.80831	.80685	.80844	1.04493	1.04548	1.04505
	2.000	2.00000	2115.92145	1251.04158	854.87288	.80386	.80407	.80335	1.02422	1.02442	1.02371
	4.000	2.00000	2119.15109	1252.90967	856.24142	.80575	.80557	.80637	1.01454	1.01435	1.01515
	6.000	2.00000	2117.58701	1251.97857	855.60834	.80342	.80394	.80448	.99855	.99907	.99961
	8.000	2.00000	2114.73404	1250.37154	854.42252	.80576	.80507	.80611	.98965	.99017	.99021
	10.000	2.00000	2119.07845	1252.94972	856.12975	.81800	.81701	.81701	.98842	.98743	.98743
	12.000	2.00000	2115.97958	1251.07672	854.90286	.82295	.82330	.82383	.98559	.98525	.98559
	14.000	2.00000	2114.68259	1250.29664	854.39597	.84133	.84197	.84167	.98223	.98228	.98237
	16.000	2.00000	2116.59549	1251.61702	855.28848	.85730	.85784	.85646	.98233	.98203	.98459
	18.000	2.00000	2117.39859	1251.88719	855.51141	.88935	.89093	.88922	1.00546	1.00703	1.00532
	20.000	2.00000	2115.91061	1251.01956	854.89105	.91545	.91785	.91517	1.01594	1.01633	1.01565
	22.000	2.00000	2110.44638	1247.79032	854.26608	.93963	.94345	.93790	1.02590	1.02971	1.02417
	24.000	2.00000	2109.08810	1246.91112	852.17700	.95666	.97305	.96043	1.03711	1.04350	1.03028
GRADIENT		.00000	1.66636	.99836	.66797	-.00064	-.00082	-.00052	-.00760	-.00778	-.00748

(EE7886) (02 AUG 75)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRPON = .000 EOLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 CR81TER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6600 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0380

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200

ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
.000	2.00000	2003.55424	828.76637	1166.48990	.70201	.70107	.70071	.87655	.87770	.87735
2.000	2.00000	2008.90266	828.44971	1166.04420	.70560	.70450	.70361	.86526	.86416	.86327
4.000	2.00000	2009.08081	828.45160	1166.04684	.70852	.70809	.70765	.85821	.85778	.85734
6.000	2.00000	2012.49275	829.60759	1167.67390	.71006	.70952	.70871	.85129	.85075	.84994
8.000	2.00000	2012.15788	829.57032	1167.32553	.71253	.71303	.71128	.85488	.85338	.85362
10.000	2.00000	2011.92180	829.36008	1167.32553	.72134	.72049	.72022	.87505	.87420	.87353
12.000	2.00000	2013.54626	829.94049	1168.14247	.72328	.72279	.72232	.90551	.90502	.90454
14.000	2.00000	2015.19850	830.40101	1168.79065	.73198	.73207	.73144	.92506	.92515	.92552
16.000	2.00000	2013.69295	829.94411	1168.14755	.74979	.75009	.75010	.92779	.92809	.92810
18.000	2.00000	2013.23676	829.86232	1168.03244	.76551	.76771	.76713	.94118	.94238	.94180
20.000	2.00000	2017.18069	830.97342	1169.59631	.78558	.78632	.78511	.95609	.95682	.95652
22.000	2.00000	2019.10837	831.89906	1170.99917	.80143	.80341	.80126	.96459	.96667	.96451
24.000	2.00000	2020.01411	832.02087	1171.07062	.81491	.81661	.81432	.98555	.98445	.98355
GRADIENT	.00000	-.11837	-.07869	-.11077	.00163	.00176	.00174	-.03511	-.00499	-.00500

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400

ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
.000	2.00000	2044.20187	642.54803	1316.73216	.69798	.69038	.69083	.92543	.91784	.91829
2.000	2.00000	2046.48904	643.12830	1317.92126	.71020	.70241	.70548	.92350	.91581	.91669
4.000	2.00000	2041.44493	641.78355	1315.16579	.70988	.70300	.70519	.91676	.90968	.91157
6.000	2.00000	2044.57449	642.62668	1316.63333	.71659	.71078	.70774	.91696	.91115	.90811
8.000	2.00000	2040.79653	641.70628	1315.00722	.71817	.71232	.70946	.91877	.91291	.91025
10.000	2.00000	2035.77562	640.44118	1312.44750	.72419	.71744	.71977	.92427	.91759	.91535
12.000	2.00000	2036.94429	640.72521	1312.93690	.72737	.72412	.72748	.92737	.92134	.92470
14.000	2.00000	2039.66587	641.42471	1314.43022	.72849	.72228	.72597	.93053	.92437	.92736
16.000	2.00000	2039.60768	641.40276	1314.38522	.73976	.73356	.73376	.93790	.93171	.93190
18.000	2.00000	2039.32877	641.26414	1314.10118	.75165	.74582	.74180	.93525	.93123	.93123
20.000	2.00000	2033.81595	639.92600	1311.35902	.74977	.74401	.74222	.93973	.93594	.93515
22.000	2.00000	2023.58159	637.19749	1305.76765	.75246	.75276	.75266	.94109	.93578	.93554
24.000	2.00000	2021.60355	636.67937	1304.70592	.76313	.75930	.75769	.94326	.93443	.93482
GRADIENT	.00000	-.68921	-.19109	-.39160	.00298	.00316	.00357	-.00217	-.00199	-.00158

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(FF7886) (02 AUG 76)

TABULATED DATA - 0A16: (ARC 11-97-87-094)
ARC 11-97-87-094 0A16: ORBITER + PAKES

PARAMETRIC DATA

BETA	=	2.000	ELEVON	=	.000
ALIPON	=	.000	BDFLAP	=	-7.170

REFERENCE DATA

SPEE	=	2690.0000	SO.FT.	XMRP	=	1076.6800	IN.	XO
LREF	=	474.8000	IN.	YMRP	=	.0000	IN.	YO
BPFF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0300						

BN/1 = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	=	1.550	BETA	PT	F	QCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
		ALPHA										
		0.00	2.00000	1568.49395	397.96504	1036.97801	72994	71496	70204	94061	93063	91771
		2.000	2.00000	1570.76030	398.53608	1039.46596	72937	71658	70759	93897	92618	91689
		4.000	2.00000	1572.20036	398.86619	1039.32613	73215	72104	71080	93827	92716	91692
		6.000	2.00000	1572.37077	398.90957	1039.43816	73923	73035	71813	94064	93175	91954
		8.000	2.00000	1573.70795	399.25253	1040.33282	74444	73693	72255	94556	93808	92369
		10.000	2.00000	1573.65640	399.24512	1040.31351	74943	74374	72943	94580	94011	92577
		12.000	2.00000	1572.64693	399.98661	1039.63991	75930	75307	74013	94627	94005	92711
		14.000	2.00000	1572.69780	399.00035	1039.67572	76290	75638	74540	94863	94279	93112
		16.000	2.00000	1572.12041	398.84843	1039.27986	76396	75770	74662	94455	93697	92621
		18.000	2.00000	1571.97598	399.61422	1039.19070	76620	76059	74941	94673	93822	92659
		20.000	2.00000	1571.13762	399.35440	1040.62433	76599	76059	74902	94362	93244	93244
		22.000	2.00000	1571.42455	399.93516	1042.11156	77176	76650	75298	94789	94263	92911
		24.000	2.00000	1576.99655	400.08383	1042.49895	77602	76842	75145	94685	93925	92228
							00153	00153	00219	-0.00058	-0.00087	-0.00022

BN/1 = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

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(EE7806) (02 AUG 75)

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 EDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 378.0000 IN. Z0
SCALE = .0300

RNVL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q13/OC	Q23/OC	Q33/OC
2.000	.000	2.00000	1843.98238	235.71697	1093.83054	.75373	.71661	.95685	.91923	.87099
2.000	.000	2.00000	1845.69919	235.68356	1093.67549	.75709	.72446	.95895	.92432	.87183
4.000	.000	2.00000	1844.79626	235.56110	1093.10722	.75793	.72716	.95917	.92834	.87883
6.000	.000	2.00000	1844.06850	235.46566	1092.66437	.76305	.73356	.96403	.93453	.88990
8.000	.000	2.00000	1845.05612	235.59471	1093.26320	.76305	.74580	.96879	.94255	.89586
10.000	.000	2.00000	1845.94762	235.71702	1093.83681	.77204	.75167	.96911	.94735	.90788
12.000	.000	2.00000	1845.38353	235.63626	1093.45602	.77747	.75896	.97124	.94764	.91151
14.000	.000	2.00000	1846.05315	235.72144	1093.85130	.78256	.76508	.97124	.94680	.91186
16.000	.000	2.00000	1846.19992	235.73932	1093.93427	.78748	.76508	.96754	.94693	.91431
18.000	.000	2.00000	1846.55709	235.79776	1094.20544	.79117	.77056	.96257	.94057	.89766
20.000	.000	2.00000	1847.25053	235.88823	1094.62527	.78911	.76709	.96257	.93573	.89314
22.000	.000	2.00000	1847.20595	235.88139	1094.59354	.79151	.77081	.95776	.93477	.89248
24.000	.000	2.00000	1846.34912	235.77158	1094.08394	.79400	.77256	.94602	.92458	.88248
GRADIENT		.00000	-.29651	-.03897	-.18083	.00107	.00264	.00058	.00215	.00196

RNVL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	Q11/OC	Q21/OC	Q13/OC	Q23/OC	Q33/OC
2.250	.000	2.00000	2059.21463	178.10006	1068.92479	.76881	.71785	.96944	.91928	.83854
2.000	.000	2.00000	2059.05692	178.08647	1068.84325	.77354	.72362	.97346	.92354	.84763
4.000	.000	2.00000	2059.38257	178.11435	1069.01056	.77940	.73557	.97508	.93125	.85379
6.000	.000	2.00000	2059.19321	178.09820	1068.91364	.78718	.74746	.97872	.93590	.86913
8.000	.000	2.00000	2059.07996	178.08038	1068.85469	.79281	.75424	.98173	.94316	.87643
10.000	.000	2.00000	2059.48004	178.12256	1069.05988	.79917	.76459	.98363	.94906	.88122
12.000	.000	2.00000	2058.62692	178.04952	1068.52146	.80510	.77057	.98529	.95175	.88544
14.000	.000	2.00000	2059.07443	178.08793	1068.85205	.80842	.77917	.98578	.95653	.88395
16.000	.000	2.00000	2058.53250	178.04136	1068.61566	.80744	.77887	.98231	.95374	.88315
18.000	.000	2.00000	2058.61588	178.04855	1068.61566	.80914	.77727	.97986	.94799	.88224
20.000	.000	2.00000	2058.52417	178.04055	1068.57248	.80730	.77152	.97379	.94313	.88462
22.000	.000	2.00000	2059.59705	178.04566	1068.56763	.79684	.76737	.97002	.93802	.87028
24.000	.000	2.00000	2058.37756	178.02781	1068.60429	.79684	.76737	.97326	.94217	.88633
GRADIENT		.00000	.04193	.00357	.02144	.00285	.00443	.00141	.00299	.00366

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(EE7806) (02 AUG. 75)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDELAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
2.0000	2.0000	2.0000	1487.32057	86.97802	654.60834	.81185	.74997	.64323	1.00689	.94501	.83400
2.0000	2.0000	2.0000	1487.99101	87.01836	654.91200	.81452	.75541	.64975	1.00784	.94873	.84305
4.000	2.0000	2.0000	1487.96725	87.01707	654.90228	.82169	.76849	.65467	1.01299	.95979	.85597
6.000	2.0000	2.0000	1487.96211	87.01669	654.89940	.82941	.77834	.68074	1.01742	.96636	.86875
8.000	2.0000	2.0000	1487.95708	87.01653	654.89824	.83408	.78593	.69142	1.01946	.97131	.87681
10.000	2.0000	2.0000	1487.91705	87.01443	654.88243	.84312	.79514	.70628	1.02714	.97916	.89350
12.000	2.0000	2.0000	1487.93314	87.01538	654.88956	.84556	.80290	.72515	1.02661	.98395	.90620
14.000	2.0000	2.0000	1487.92639	87.01483	654.88538	.84551	.80752	.73605	1.02315	.98516	.91370
16.000	2.0000	2.0000	1487.94725	87.01604	654.89454	.84399	.80792	.74358	1.01797	.98189	.91555
18.000	2.0000	2.0000	1487.92914	87.01502	654.88682	.83990	.80505	.74589	1.00905	.97421	.91505
20.000	2.0000	2.0000	1487.96275	87.01727	654.90379	.83422	.79927	.74704	.99743	.96247	.90475
22.000	2.0000	2.0000	1487.95438	87.01694	654.90131	.82948	.79701	.74479	.98679	.95432	.90475
24.000	2.0000	2.0000	1487.99357	87.01867	654.91432	.82214	.79232	.74183	.97459	.94477	.89428
GRADIENT			.16166	.00976	.07349	.00246	.00463	.00536	.00153	.00370	.00442

RM/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
2.000	2.0000	2.0000	1939.15904	51.12361	565.47639	.87620	.77612	.61685	1.05980	.95973	.83400
4.000	2.0000	2.0000	1940.13321	51.14938	565.76151	.88722	.79006	.62726	1.06930	.97214	.84305
6.000	2.0000	2.0000	1939.45256	51.13434	565.59507	.89559	.80833	.64490	1.07584	.98898	.85597
8.000	2.0000	2.0000	1939.50688	51.13526	565.60524	.89959	.81933	.66895	1.07902	.99876	.86875
10.000	2.0000	2.0000	1939.64354	51.14013	565.65913	.90590	.83106	.68553	1.08376	1.00893	.89350
12.000	2.0000	2.0000	1937.17825	51.07750	564.96639	.91284	.83823	.70616	1.08376	1.01409	.90620
14.000	2.0000	2.0000	1938.09195	51.10284	565.24663	.91950	.85246	.73245	1.09231	1.02578	.91555
16.000	2.0000	2.0000	1937.60146	51.08700	565.07146	.91713	.85796	.74584	1.08710	1.02793	.91997
18.000	2.0000	2.0000	1939.26842	51.13221	565.57153	.90970	.85423	.75458	1.07500	1.01953	.91997
20.000	2.0000	2.0000	1938.53479	51.11276	565.35637	.90233	.84814	.75934	1.06442	1.01022	.91997
22.000	2.0000	2.0000	1938.72614	51.12192	565.45771	.89540	.84192	.76183	1.05264	.99916	.91997
24.000	2.0000	2.0000	1938.94917	51.12888	565.53468	.88216	.83052	.75952	1.04485	.98331	.90620
GRADIENT			.07340	.00268	.02967	.00485	.00805	.00761	.00401	.00721	.00617

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(EE7B06) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1078.6900 IN. XO
LPEF = 474.8000 IN. YMRP = .0000 IN. YO
BPEF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.0000 ELEVON = .000
ALFLON = .000 BOFLAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
3.500	.000	2.00000	2667.88812	34.95021	532.71109	.89341	.76171	.56188	1.05936	.93765	.73782
2.000	2.000	2.00000	2667.98584	34.95149	532.73055	.90984	.78581	.57954	1.08485	.96083	.73455
4.000	4.000	2.00000	2667.95573	34.94600	532.64699	.91874	.80780	.59926	1.09231	.98138	.77283
6.000	6.000	2.00000	2668.65705	34.95039	532.86530	.92347	.81703	.62498	1.09572	.93029	.79824
8.000	8.000	2.00000	2668.83286	34.95260	532.89992	.93397	.83381	.64920	1.10478	1.00472	.82011
10.000	10.000	2.00000	2667.49528	34.94465	532.62630	.93750	.84039	.67602	1.10638	1.00927	.84490
12.000	12.000	2.00000	2669.69775	34.97392	533.07244	.94000	.85603	.70558	1.10536	1.02140	.87093
14.000	14.000	2.00000	2668.85501	34.96312	532.90790	.93361	.85949	.71794	1.09613	1.02201	.88045
16.000	16.000	2.00000	2669.65961	34.97344	533.06512	.92843	.85605	.73178	1.08548	1.01410	.88983
18.000	18.000	2.00000	2668.67300	34.96078	532.87227	.91445	.84467	.73675	1.06943	.99567	.89175
20.000	20.000	2.00000	2670.18805	34.98034	533.17038	.89734	.83082	.73111	1.04749	.98097	.89125
22.000	22.000	2.00000	2668.19308	34.95369	532.76417	.88098	.81624	.72303	1.02693	.96219	.86898
24.000	24.000	2.00000	2670.01163	34.97799	533.13458	.86294	.79603	.70691	1.00517	.93826	.84313
GRADIENT		.00000	-.08307	-.00105	-.01683	.00633	.01152	.00935	.00574	.01093	.00875

(EE7807) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	P	QCOMP	Q11/QC	Q21/QC	Q31/QC	Q13/QC	Q23/QC	Q33/QC
.600	.000	5.0000	2624.0095	2057.6828	566.31805	1.04524	1.04578	1.04585	1.21344	1.21399	1.21325
2.000	.000	5.0000	2623.9321	2057.61972	566.31255	1.02692	1.02613	1.02730	1.19343	1.19263	1.19380
4.000	.000	5.0000	2624.85635	2058.36877	566.48758	1.02142	1.02180	1.02167	1.17938	1.17977	1.17954
6.000	.000	5.0000	2627.55573	2060.37476	567.28098	1.03104	1.03093	1.03258	1.18632	1.18521	1.18766
8.000	.000	5.0000	2625.01135	2058.40189	566.60947	1.02974	1.03013	1.02945	1.18120	1.18158	1.18090
10.000	.000	5.0000	2625.86368	2059.00568	566.86900	1.04485	1.04735	1.04668	1.18177	1.18126	1.18359
12.000	.000	5.0000	2624.17407	2057.86670	566.30737	1.05775	1.05678	1.05501	1.19184	1.19087	1.18910
14.000	.000	5.0000	2624.36369	2058.02087	566.33981	1.08364	1.08229	1.07989	1.21255	1.21120	1.20879
16.000	.000	5.0000	2624.72836	2058.21182	566.51654	1.10791	1.10911	1.10734	1.22190	1.22310	1.22133
18.000	.000	5.0000	2627.18732	2059.98523	567.20209	1.14232	1.14419	1.14207	1.23592	1.23779	1.23555
20.000	.000	5.0000	2627.48154	2060.22818	567.25336	1.19153	1.19341	1.18910	1.26322	1.26510	1.26079
22.000	.000	5.0000	2625.04254	2058.51157	566.53098	1.22590	1.23034	1.21653	1.28424	1.28867	1.27487
24.000	.000	5.0000	2625.90552	2059.18518	566.72034	1.25000	1.26057	1.23436	1.29248	1.30305	1.27685
GRADIENT		.00000	.21387	.17145	.04238	-.00596	-.00600	-.00585	-.00851	-.00858	-.00840

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	P	QCOMP	Q11/QC	Q21/QC	Q31/QC	Q13/QC	Q23/QC	Q33/QC
.900	.000	5.0000	2111.48715	1248.50783	862.97934	.88063	.88129	.87991	1.07807	1.07873	1.07735
2.000	.000	5.0000	2115.43283	1250.78174	864.65109	.87751	.87843	.87798	1.06227	1.06318	1.06273
4.000	.000	5.0000	2117.10138	1251.73029	865.37109	.87334	.87377	.87397	1.04550	1.04593	1.04613
6.000	.000	5.0000	2114.79214	1250.37328	864.41888	.87013	.87155	.87173	1.03270	1.03412	1.03430
8.000	.000	5.0000	2109.98957	1247.40634	862.56323	.87568	.87688	.87697	1.02388	1.02508	1.02517
10.000	.000	5.0000	2116.56833	1251.47731	865.09103	.89129	.89103	.89030	1.02358	1.02333	1.02250
12.000	.000	5.0000	2116.71035	1251.56195	865.14841	.89614	.89626	.89609	1.02311	1.02324	1.02337
14.000	.000	5.0000	2112.28323	1248.93517	863.37808	.91290	.91380	.91347	1.02821	1.02812	1.02578
16.000	.000	5.0000	2114.90735	1250.43449	864.47287	.93612	.93577	.93587	1.03374	1.03439	1.03349
18.000	.000	5.0000	2115.76746	1250.94667	864.82080	.95795	.95824	.95749	1.04137	1.04166	1.03491
20.000	.000	5.0000	2108.11169	1246.37889	861.73282	.98648	.98830	.98569	1.05578	1.05761	1.05501
22.000	.000	5.0000	2109.97089	1247.37915	862.59174	1.01783	1.02220	1.01579	1.07378	1.07815	1.07175
24.000	.000	5.0000	2116.70166	1251.42284	865.27884	1.04712	1.05445	1.04177	1.09002	1.09735	1.09468
GRADIENT		.00000	1.40354	.80562	.59794	-.00182	-.00188	-.00148	-.00814	-.00820	-.00786

TABULATED DATA - 0A161 (ARC 11-97-87-09%)
ARC 11-97-87-09% 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 °Q.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	BETA	PT	P	OCOMP	Q11/QC	Q21/QC	Q31/QC	Q13/QC	Q23/QC	Q33/QC
ALPHA										
.000	5.00000	2011.53369	829.44221	1167.44115	.75329	.75284	.75170	.90214	.90169	.90055
2.000	5.00000	2009.60754	828.83453	1166.58583	.75968	.75987	.75868	.88610	.88629	.88610
4.000	5.00000	2010.79175	829.08212	1166.93431	.76406	.76293	.76224	.88277	.88165	.88095
6.000	5.00000	2013.55270	830.00262	1168.22992	.76580	.76555	.76437	.87868	.87843	.87725
8.000	5.00000	2013.06412	829.84943	1168.01431	.76958	.76938	.76824	.88345	.88328	.88212
10.000	5.00000	2013.08351	829.88634	1168.06627	.77879	.77872	.77791	.91837	.91839	.91749
12.000	5.00000	2013.92958	830.14828	1168.43494	.77702	.77702	.77689	.95238	.95244	.95231
14.000	5.00000	2014.49097	830.35471	1168.72548	.78269	.78290	.78429	.95873	.95894	.95933
16.000	5.00000	2014.72244	830.37983	1168.76085	.80389	.80465	.80619	.96394	.96470	.96524
18.000	5.00000	2016.26015	830.79547	1169.34586	.82244	.82383	.82480	.97730	.97869	.97956
20.000	5.00000	2018.08566	831.44070	1170.25401	.83967	.84126	.84221	.98999	.99158	.99253
22.000	5.00000	2016.50551	830.88952	1169.47824	.85338	.85548	.85648	1.00110	1.00319	1.00420
24.000	5.00000	2018.10237	831.41154	1170.21298	.86335	.86790	.86934	1.01918	1.02373	1.02518
GRADIENT	.00000	-1.18549	-0.09002	-1.12671	.00269	.00252	.00264	-.00484	-.00501	-.00490

MACH = 1.400	BETA	PT	P	OCOMP	Q11/QC	Q21/QC	Q31/QC	Q13/QC	Q23/QC	Q33/QC
ALPHA										
.000	5.00000	2051.64871	844.49467	1320.72128	.74032	.73207	.73544	.94987	.94101	.93438
2.000	5.00000	2052.59506	844.77777	1321.30142	.74635	.73869	.74317	.94203	.93437	.93884
4.000	5.00000	2045.37286	842.84837	1317.34763	.75052	.74340	.74787	.94090	.93377	.93825
6.000	5.00000	2043.72565	842.43147	1316.49332	.75420	.74843	.74764	.94122	.93545	.93465
8.000	5.00000	2038.74538	841.18506	1313.94118	.75603	.74950	.74887	.94315	.93682	.93599
10.000	5.00000	2037.38092	840.82363	1313.19347	.76220	.75576	.75640	.94621	.93977	.94042
12.000	5.00000	2038.57906	841.10638	1313.77788	.76184	.75457	.75911	.95085	.94357	.94812
14.000	5.00000	2044.59929	842.68520	1317.01324	.76997	.75952	.76158	.95825	.95180	.95386
16.000	5.00000	2042.24944	842.08685	1315.78711	.76139	.77620	.77511	.96237	.95718	.95609
18.000	5.00000	2029.50903	838.78069	1309.01199	.78802	.78206	.78497	.96345	.95748	.95841
20.000	5.00000	2032.02077	839.50005	1310.48612	.79032	.78468	.78447	.96908	.96344	.96323
22.000	5.00000	2035.48625	840.41441	1312.35988	.79591	.79491	.79207	.97286	.96819	.96635
24.000	5.00000	2020.62016	836.51413	1304.36728	.80049	.79582	.78913	.96569	.96102	.95433
GRADIENT	.00000	-1.55897	-4.1158	-84.341	.00255	.00283	.00311	-.00209	-.00181	-.00153

TABULATED DATA - 0A161 (ARC 11-97-87-09%)

ARC 11-97-87-09% 0A161 ORBITER + RAKES

(EE7807) (02 AUG 76)

REFERENCE DATA

SREF = 2698.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 5.0000 ELEVON = .0000
AILRON = .0000 BDFLAP = -7.770

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
1.550	.000	5.00000	1561.82259	396.38618	1032.75972	74340	73569	72894	94963	94183	93340C
2.000	.000	5.00000	1563.04628	396.65676	1033.56903	74553	73669	72917	94709	94825	93973
4.000	.000	5.00000	1563.16922	396.66547	1033.50172	75368	74314	73226	94741	93717	93599
6.000	.000	5.00000	1563.46620	396.74025	1033.78556	75678	74668	73877	94590	93779	92788
8.000	.000	5.00000	1567.33949	397.71354	1036.32269	76426	75863	74660	95031	94468	93265
10.000	.000	5.00000	1572.23886	398.95424	1039.55556	76802	76308	75194	95463	94968	93952
12.000	.000	5.00000	1570.17735	398.42982	1038.18909	77155	76447	75752	94674	94674	93979
14.000	.000	5.00000	1568.15364	397.92425	1036.87173	77088	76030	75452	95002	94962	93595
16.000	.000	5.00000	1568.63318	398.03831	1037.16993	77279	76409	75452	95158	94288	93331
18.000	.000	5.00000	1568.80666	398.07167	1037.25586	78345	77427	76414	95610	94692	93378
20.000	.000	5.00000	1568.97487	398.12064	1037.38345	78705	78406	76452	95557	94889	92935
22.000	.000	5.00000	1571.11673	398.66999	1038.91490	78702	78484	76755	94405	94187	92459
24.000	.000	5.00000	1571.43958	398.73846	1038.99330	77968	77729	76235	94142	93902	91493
GRADIENT		.00000	.33655	.07593	.20860	.00257	.00196	.00235	-.00056	-.00117	-.00076

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
1.750	.000	5.00000	1655.65965	310.98268	1070.81854	73278	71514	69113	93858	92933	93340C
2.000	.000	5.00000	1655.87311	311.02239	1070.95529	73310	71840	69311	93568	92698	89592
4.000	.000	5.00000	1655.81648	311.01186	1070.91904	74399	72713	70383	93947	92661	89569
6.000	.000	5.00000	1656.53960	311.14603	1071.38103	74862	73604	71427	93987	92728	89331
8.000	.000	5.00000	1655.73843	310.99725	1070.86871	75564	74290	71840	94360	92728	90551
10.000	.000	5.00000	1655.74200	310.99860	1070.87534	75566	74343	72425	94253	93086	90636
12.000	.000	5.00000	1654.84193	310.82005	1070.25854	76317	74887	73992	94498	93087	91112
14.000	.000	5.00000	1655.26360	311.09286	1071.19794	76487	74776	72171	94363	92993	89987
16.000	.000	5.00000	1655.03967	311.05466	1071.06638	76534	75067	72203	94220	92752	89898
18.000	.000	5.00000	1655.02122	310.85534	1071.38005	77413	75834	73221	94602	92752	90410
20.000	.000	5.00000	1654.73904	310.79940	1070.18747	77833	76223	73420	94367	92757	89953
22.000	.000	5.00000	1655.71509	310.98600	1070.62997	77701	76041	73155	93552	91901	89016
24.000	.000	5.00000	1658.68179	311.16761	1071.45531	76930	75265	72599	92538	90877	88207
GRADIENT		.00000	.03946	.00730	.02312	.00280	.00300	.00318	.00022	.00042	.00060

(EE7807) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-084)
ARC 11-97-87-084 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
2.000	.000	5.00000	1854.93884	234.25348	1087.03931	.73612	.70508	.68454	.92394	.89290	.85235
2.000	2.000	5.00000	1830.93913	233.75630	1084.73218	.74398	.71508	.69176	.92993	.89102	.85770
4.000	4.000	5.00000	1831.46227	233.83033	1085.07568	.74958	.72555	.68122	.93013	.89610	.85177
6.000	6.000	5.00000	1831.73677	233.86808	1085.25089	.76095	.73338	.68855	.93684	.90327	.85443
8.000	8.000	5.00000	1834.07581	234.17492	1086.67477	.76992	.74414	.70128	.94360	.91782	.87497
10.000	10.000	5.00000	1836.11595	234.42052	1087.81444	.77123	.74870	.70926	.94091	.91838	.87894
12.000	12.000	5.00000	1836.10439	234.41899	1087.80734	.78978	.75208	.71859	.94716	.91845	.87919
14.000	14.000	5.00000	1841.38952	235.10691	1090.93960	.78353	.75805	.71630	.94542	.91994	.87919
16.000	16.000	5.00000	1849.86311	236.19734	1095.05969	.78511	.76096	.71566	.94754	.91923	.87924
18.000	18.000	5.00000	1849.99158	236.21837	1096.15729	.78419	.76096	.71566	.94754	.91923	.87924
20.000	20.000	5.00000	1845.65546	235.66004	1093.56638	.78684	.76475	.72008	.93684	.91473	.87008
22.000	22.000	5.00000	1847.52986	235.83360	1094.65019	.78749	.76435	.72078	.93478	.91164	.86807
24.000	24.000	5.00000	1848.52892	236.04575	1095.35625	.78090	.75499	.71427	.92785	.90195	.86123
GRADIENT		.00000	-.86914	-.10579	-.49691	.00336	.00512	.00417	.00155	.00330	.00235

MACH	ALPHA	BETA	PT	P	OCOMP	011/OC	021/OC	031/OC	013/OC	023/OC	033/OC
2.250	.000	5.00000	2059.36877	178.11419	1069.00958	.75777	.70655	.64253	.93348	.89226	.81824
2.000	2.000	5.00000	2058.48529	178.03863	1068.55612	.76697	.71776	.65884	.93860	.89338	.82247
4.000	4.000	5.00000	2059.33249	178.11115	1068.99139	.77444	.72675	.66874	.94398	.89600	.82800
6.000	6.000	5.00000	2059.45581	178.12163	1069.05426	.77791	.73577	.66769	.94610	.90396	.83598
8.000	8.000	5.00000	2058.44626	178.03483	1068.53333	.77791	.74499	.68045	.95248	.91062	.84508
10.000	10.000	5.00000	2059.21469	178.10055	1068.92778	.79381	.75598	.69792	.95785	.92002	.86197
12.000	12.000	5.00000	2058.72452	178.05897	1069.67753	.79306	.76160	.70425	.96150	.92504	.86709
14.000	14.000	5.00000	2058.33539	178.02506	1068.47465	.80019	.76024	.70581	.96365	.92390	.86548
16.000	16.000	5.00000	2059.73508	178.14465	1069.19247	.79713	.76125	.69398	.95563	.91973	.85247
18.000	18.000	5.00000	2058.78250	178.06276	1068.70093	.79395	.76250	.69515	.94958	.91813	.85078
20.000	20.000	5.00000	2059.63272	178.13587	1069.13972	.78018	.74864	.68774	.93690	.90735	.84646
22.000	22.000	5.00000	2058.95166	178.07758	1068.78892	.78247	.74922	.68760	.93457	.90132	.83970
24.000	24.000	5.00000	2058.71259	178.05695	1068.66547	.75795	.72750	.67169	.90465	.87421	.81840
GRADIENT		.00000	-.00907	-.00076	-.00455	.00417	.00505	.00405	.00255	.00344	.00244

TABULATED DATA - OA161 (ARC 11-97-87-094)
 A/C 11-97-87-094 OA161 ORBITER + RAKES

(EE7807) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
2.500	.000	5.00000	1487.1808	86.98371	654.65117	.75790	.69716	.61116	.93143	.87069	.78469
2.000	.000	5.00000	1487.53204	86.99042	654.70170	.76893	.70809	.62178	.94125	.88041	.79410
4.000	.000	5.00000	1487.58735	86.99357	654.72614	.77484	.71872	.63255	.94543	.88930	.80313
6.000	.000	5.00000	1487.58553	86.99354	654.72516	.78385	.72841	.64219	.95107	.89663	.80941
8.000	.000	5.00000	1487.60651	86.99329	654.73532	.79169	.74137	.65594	.95579	.90547	.82034
10.000	.000	5.00000	1487.63735	86.99730	654.75346	.79933	.75354	.67418	.96292	.91714	.83777
12.000	.000	5.00000	1487.63515	86.99718	654.75260	.80323	.75802	.68434	.96475	.91954	.84587
14.000	.000	5.00000	1487.64052	86.99771	654.75557	.81055	.76384	.69316	.96968	.92297	.85229
16.000	.000	5.00000	1487.63156	86.99771	654.75660	.80607	.76610	.69557	.96318	.92321	.85268
18.000	.000	5.00000	1487.64584	86.99899	654.76619	.80995	.76445	.69853	.95272	.91822	.85230
20.000	.000	5.00000	1487.60817	86.99542	654.74684	.79202	.75689	.69735	.94158	.90555	.84701
22.000	.000	5.00000	1487.61295	86.99681	654.74979	.78254	.74924	.69107	.92810	.89480	.83664
24.000	.000	5.00000	1487.57964	86.99521	654.73773	.76585	.73514	.68407	.90975	.87904	.82797
GRADIENT		.00000	.04233	.00449	.01874	.00424	.00539	.00535	.00350	.00465	.00461

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
3.000	.000	5.00000	1939.46461	51.12282	565.46770	.77493	.68144	.56034	.93344	.89955	.71890
2.000	.000	5.00000	1937.72949	51.07815	564.97363	.78748	.69463	.56916	.94497	.91213	.72656
4.000	.000	5.00000	1938.05091	51.08625	565.06321	.80491	.71268	.58514	.96175	.92952	.74199
6.000	.000	5.00000	1938.52211	51.09301	565.20436	.81251	.72612	.59627	.96780	.93441	.75155
8.000	.000	5.00000	1938.14912	51.09524	565.16261	.82220	.74504	.61863	.97562	.93846	.77024
10.000	.000	5.00000	1938.11229	51.09643	565.17573	.82999	.75500	.63399	.98222	.94723	.78223
12.000	.000	5.00000	1937.93176	51.09222	565.12921	.83624	.76722	.65301	.98666	.91765	.80343
14.000	.000	5.00000	1938.21223	51.10291	565.24744	.84089	.77567	.66378	.98918	.92555	.81206
16.000	.000	5.00000	1938.92711	51.12403	565.48102	.83726	.77823	.67188	.99271	.92359	.81732
18.000	.000	5.00000	1938.64461	51.12433	565.48442	.82547	.77431	.67294	.98444	.91729	.81591
20.000	.000	5.00000	1938.51358	51.11730	565.40651	.81562	.76538	.67417	.95417	.90353	.81272
22.000	.000	5.00000	1938.60377	51.12642	565.50747	.79973	.75231	.65998	.93535	.88754	.80348
24.000	.000	5.00000	1938.03142	51.11131	565.34034	.77916	.73122	.65998	.91329	.86535	.79410
GRADIENT		.00000	-.35345	-.00914	-.10112	.00749	.00781	.00619	.00709	.00739	.00577

(EE7807) (02 AUG 76)

TABLATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 EDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BPEF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q11/OC	Q21/OC	Q31/OC	Q13/OC	Q23/OC	Q33/OC
3.500	.000	5.00000	2683.02945	35.14780	535.72268	.75633	.53874	.49818	.90844	.79083	.63029
2.000	4.000	5.00000	2682.78583	35.14482	535.67735	.77485	.65640	.50869	.92614	.80758	.65997
6.000	6.000	5.00000	2680.95332	35.12155	535.32255	.73236	.67271	.52509	.94221	.82255	.67494
8.000	8.000	5.00000	2682.66058	35.14306	535.65053	.80227	.69339	.53758	.95080	.84192	.68611
10.000	10.000	5.00000	2680.65055	35.11761	535.26256	.81430	.71914	.56168	.96270	.86753	.71008
12.000	12.000	5.00000	2682.31409	35.13848	535.58065	.82198	.72886	.58038	.96857	.87545	.72695
14.000	14.000	5.00000	2680.79322	35.11946	535.29087	.82602	.74116	.60128	.96986	.88504	.74512
16.000	16.000	5.00000	2681.94269	35.13391	535.51109	.82924	.74930	.61409	.97080	.89087	.75555
18.000	18.000	5.00000	2680.82974	35.11878	535.28040	.82493	.75457	.62011	.96482	.89366	.75920
20.000	20.000	5.00000	2680.17957	35.11156	535.17036	.80955	.74732	.62180	.93021	.85418	.75856
22.000	22.000	5.00000	2682.18320	35.13710	535.55972	.79632	.73589	.62343	.90831	.85978	.75732
24.000	24.000	5.00000	2680.60205	35.11565	535.23274	.77754	.71525	.61755	.88297	.84603	.74833
GRADIENT		.00000	2680.41901	35.11479	535.21957	.75540	.69311	.64575	.88297	.82067	.73332
			-.51654	-.00556	-.10005	.00901	.00849	.00673	.00844	.00793	.00616

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(EE7C03) 1 02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094+ 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

RV/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200

ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
.000	-5.00000	2003.91339	628.82202	1166.56822	-.02176	-.02208	-.02496	-.01541	-.01563	-.01766
2.000	-5.00000	2009.58678	828.57557	1166.22134	-.01819	-.01908	-.02214	-.01306	-.01370	-.01587
4.000	-5.00000	2012.39203	829.41618	1167.40450	-.01690	-.01747	-.02065	-.01237	-.01278	-.01510
6.000	-5.00000	2007.30058	828.01813	1165.43674	-.01584	-.01652	-.01837	-.01170	-.01220	-.01356
8.000	-5.00000	2005.18105	827.75498	1165.08044	-.01691	-.01709	-.02061	-.01247	-.01260	-.01518
10.000	-5.00000	1999.63934	826.39300	1163.13228	-.01616	-.01668	-.01993	-.01191	-.01230	-.01465
12.000	-5.00000	2001.00822	826.74893	1163.65021	-.01721	-.01683	-.01939	-.01240	-.01233	-.01434
14.000	-5.00000	2001.46516	826.64798	1163.50826	-.01736	-.01814	-.02044	-.01265	-.01238	-.01492
16.000	-5.00000	1999.43224	826.30900	1163.03114	-.01938	-.01897	-.02044	-.01277	-.01334	-.01522
18.000	-5.00000	2003.10529	827.20448	1164.29153	-.02156	-.02060	-.02418	-.01449	-.01418	-.01577
20.000	-5.00000	2000.66002	826.62385	1163.47430	-.02432	-.02434	-.02837	-.01630	-.01558	-.01828
22.000	-5.00000	1996.12405	825.65847	1162.11552	-.02574	-.02434	-.03397	-.01654	-.01855	-.02160
24.000	-5.00000	1995.54181	825.41649	1161.77493	-.03009	-.02574	-.03397	-.02337	-.02001	-.02637
GRADIENT	.00000	.86957	.14854	.20908	.00121	.00115	.00108	.00076	.00071	.00064

RV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550

ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
.000	-5.00000	1578.31139	400.01855	1042.32884	-.13574	-.13218	-.18378	-.10032	-.11124	-.13335
2.000	-5.00000	1578.99117	400.18729	1042.76854	-.13872	-.15690	-.17731	-.10212	-.11501	-.12935
4.000	-5.00000	1577.32025	399.78339	1041.71767	-.13320	-.15138	-.16977	-.09861	-.11160	-.12464
6.000	-5.00000	1577.34309	399.79176	1041.73790	-.12858	-.14382	-.16646	-.09514	-.10718	-.12343
8.000	-5.00000	1578.35884	400.03287	1042.36615	-.12539	-.13718	-.16858	-.09427	-.10266	-.12411
10.000	-5.00000	1575.77229	399.39394	1040.70128	-.11999	-.13194	-.15835	-.09269	-.09568	-.11854
12.000	-5.00000	1575.64384	399.36391	1040.63941	-.12335	-.13304	-.15570	-.09397	-.10113	-.11779
14.000	-5.00000	1575.95380	399.44687	1040.63922	-.12274	-.13330	-.15356	-.09416	-.10203	-.11705
16.000	-5.00000	1575.97449	399.45256	1040.85405	-.12419	-.13241	-.15300	-.09563	-.10409	-.11700
18.000	-5.00000	1576.27609	399.52647	1041.04663	-.12705	-.13403	-.15116	-.09890	-.10409	-.12314
20.000	-5.00000	1575.81870	399.41241	1040.74942	-.13208	-.13939	-.15726	-.10391	-.10922	-.12799
22.000	-5.00000	1575.80844	399.41526	1040.75685	-.14082	-.14787	-.16145	-.11205	-.11752	-.12986
24.000	-5.00000	1576.42549	399.57412	1041.17079	-.14804	-.15555	-.16135	-.11942	-.12532	-.12986
GRADIENT	.00000	-.24773	-.05863	-.15279	.00089	.00020	.00350	.00343	-.00009	-.00218

(EE76037) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 SDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LPEF = 574.8000 IN. YMRP = .0000 IN. YO
 BRPF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RV/L = 5.0% GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750
 ALPHA

BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
-5.00000	1643.42418	309.79275	1066.72121	-27191	-30028	-36811	-19887	-21843	-26401
-5.00000	1650.93587	310.08349	1067.72229	-26550	-30031	-37398	-19520	-21919	-26885
-5.00000	1650.24094	309.94633	1067.25003	-26092	-29355	-35332	-19304	-21801	-26324
-5.00000	1649.94432	309.89394	1067.06963	-25996	-28528	-34848	-19386	-21166	-25532
-5.00000	1650.82304	310.06269	1067.65071	-25388	-27269	-32665	-19000	-20331	-24094
-5.00000	1650.44762	309.98747	1067.39171	-24936	-26559	-31409	-18776	-19933	-23351
-5.00000	1651.41377	310.17471	1068.03942	-24896	-26353	-30563	-18901	-19958	-23032
-5.00000	1651.02856	310.09678	1067.76807	-24760	-26271	-30324	-18931	-20029	-22730
-5.00000	1650.14075	309.92378	1067.19304	-24739	-26204	-29512	-19063	-20137	-22543
-5.00000	1650.84254	310.06318	1067.65240	-24951	-26528	-29286	-19440	-20603	-22635
-5.00000	1651.38724	310.16493	1068.00276	-24920	-26509	-29386	-19707	-20907	-23140
-5.00000	1651.57825	310.20011	1068.12669	-25272	-26955	-30537	-20131	-21345	-24119
-5.00000	1651.58163	310.20077	1068.12617	-26020	-27739	-31915	-20972	-22276	-25417
-5.00000	1651.20419	309.93940	1068.13221	-00275	-00158	-00148	-00148	-00050	-00019

RV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000
 ALPHA

BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
-5.00000	1847.06216	235.97826	1095.04305	-47191	-52378	-65220	-35517	-39193	-47789
-5.00000	1848.00623	236.10478	1095.63014	-46308	-51694	-67135	-35297	-39060	-49496
-5.00000	1847.42177	236.02850	1095.27618	-46180	-51091	-66340	-35213	-38649	-48981
-5.00000	1846.95721	235.96262	1094.97044	-45846	-49384	-59755	-35366	-37278	-47728
-5.00000	1845.93925	235.95757	1094.99344	-45311	-48705	-57853	-34897	-37212	-47355
-5.00000	1845.48546	235.89915	1094.67596	-44389	-47282	-56425	-34602	-37159	-46692
-5.00000	1846.15115	235.90250	1094.69148	-44399	-47282	-54221	-34696	-37115	-46044
-5.00000	1846.62762	235.91658	1094.75682	-43799	-47074	-52323	-34696	-37115	-45944
-5.00000	1846.02321	235.83774	1094.39096	-44153	-47244	-52464	-35125	-37420	-461251
-5.00000	1846.35656	235.87904	1094.58261	-45340	-48123	-52490	-35039	-38101	-47136
-5.00000	1846.86518	235.94551	1094.89108	-45477	-48352	-52490	-35420	-38581	-471891
-5.00000	1847.20576	235.98882	1095.09203	-45137	-48352	-53362	-35754	-39165	-47998
-5.00000	1846.00110	235.93439	1094.37541	-45096	-48161	-54743	-37478	-39691	-49498
-5.00000	1846.00110	235.93439	1094.37541	-00253	-00322	-00280	-00101	-00136	-00299

GRADIENT

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(EE7C03) 1 02 AUG 75)

REFERENCE DATA

SREF = 2592.0000 SC.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.530
 ALPHA
 .000
 2.000
 4.000
 6.000
 8.000
 10.000
 12.000
 14.000
 16.000
 18.000
 20.000
 22.000
 24.000
 GRADIENT

BETA	PT	P	OCOMP	OPT011	OPT021	OPT031	OPT013	OPT023	OPT033
-5.00000	2051.52133	177.43511	1064.93391	-72915	-80927	-1.03475	-55733	-62326	-77473
-5.00000	2050.73444	177.35765	1064.52908	-72330	-80022	-1.03843	-56155	-61638	-77527
-5.00000	2050.90634	177.38244	1064.61781	-72302	-79260	-1.01701	-55340	-61216	-76372
-5.00000	2050.73329	177.36738	1064.52737	-70994	-76420	-93669	-55725	-59577	-71498
-5.00000	2051.17938	177.40587	1064.75842	-69584	-75124	-85442	-55165	-53299	-69157
-5.00000	2051.78479	177.45775	1065.06981	-69741	-74725	-87865	-55297	-59217	-68574
-5.00000	2052.43539	177.51383	1065.40637	-69521	-75000	-85661	-55441	-58661	-67704
-5.00000	2054.13220	177.65454	1066.25092	-70489	-75263	-84422	-55501	-59594	-68590
-5.00000	2055.13664	177.75452	1066.85094	-69843	-74991	-84648	-55379	-60176	-67201
-5.00000	2055.90338	177.81194	1067.19557	-70012	-75658	-83937	-55775	-61193	-67207
-5.00000	2055.49188	177.77633	1066.93165	-70251	-75757	-82971	-55761	-61821	-67201
-5.00000	2055.35655	177.76571	1066.91809	-70320	-76754	-83205	-55552	-61107	-69466
-5.00000	2056.58188	177.85959	1067.54214	-69834	-75321	-85702	-55423	-62582	-72619
-5.00000	-1.15373	-0.01317	-0.07902	-00153	-00417	-00443	-00098	-00278	-00275

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.530
 ALPHA
 .000
 2.000
 4.000
 6.000
 8.000
 10.000
 12.000
 14.000
 16.000
 18.000
 20.000
 22.000
 24.000
 GRADIENT

BETA	PT	P	OCOMP	OPT011	OPT021	OPT031	OPT013	OPT023	OPT033
-5.00000	1498.56390	87.64455	659.62552	-1.00763	-1.08072	-1.39324	-79569	-84802	-1.05920
-5.00000	1497.87276	87.60330	659.31491	-1.00945	-1.07632	-1.38122	-79729	-84420	-1.05109
-5.00000	1497.09436	87.55775	658.97150	-1.00095	-1.06267	-1.33430	-79450	-83559	-1.02449
-5.00000	1497.75047	87.59612	659.26024	-99407	-1.04571	-1.29732	-79973	-82635	-99309
-5.00000	1497.84230	87.60144	659.30032	-99515	-1.04625	-1.25979	-79321	-83176	-98054
-5.00000	1497.81511	87.59991	659.28880	-98765	-1.04485	-1.24722	-79293	-83356	-97600
-5.00000	1497.81754	87.59999	659.28856	-98802	-1.05467	-1.21741	-79731	-84462	-95101
-5.00000	1497.78538	87.59764	659.27169	-98405	-1.05547	-1.19424	-79550	-85350	-95136
-5.00000	1497.77367	87.59656	659.26350	-98343	-1.05149	-1.19073	-80303	-85325	-95122
-5.00000	1497.77548	87.59559	659.26370	-98795	-1.06699	-1.15468	-81223	-87245	-95131
-5.00000	1497.79357	87.59782	659.27309	-98598	-1.07215	-1.15429	-81511	-87500	-96673
-5.00000	1497.81293	87.59903	659.28218	-98915	-1.08236	-1.12028	-83135	-89433	-98397
-5.00000	1497.82393	87.59926	659.28399	-1.01112	-1.10895	-1.12069	-84910	-90931	-99733
-5.00000	-1.36739	-0.02172	-0.16350	-00167	-00451	-01473	-00045	-00256	-00863

(EE7C03) (02 / 3 75)

TABULATED DATA - 0A161 (ARC 11-97-87-09+)

ARC 11-97-87-09+ 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AILRON = .000 EDFLAP = -7.170

RV/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000

ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
3.000	-5.00000	1935.56339	51.10074	565.22348	-1.94318	-2.05699	-2.76182	-1.57657	-1.65883	-2.12934
2.000	-5.00000	1935.15036	51.09178	565.12438	-1.93366	-2.04017	-2.69837	-1.57165	-1.64725	-2.05600
4.000	-5.00000	1936.07675	51.11307	565.35988	-1.92115	-2.01985	-2.69837	-1.56507	-1.63523	-2.02037
6.000	-5.00000	1936.50783	51.12482	565.48977	-1.92272	-2.01958	-2.52593	-1.56709	-1.63600	-1.99302
8.000	-5.00000	1936.47981	51.12357	565.47600	-1.91011	-2.01418	-2.43578	-1.56214	-1.63559	-1.92925
10.000	-5.00000	1936.30977	51.12127	565.45056	-1.89974	-2.02404	-2.42230	-1.56342	-1.65317	-1.93184
12.000	-5.00000	1936.60462	51.11145	565.34191	-1.88388	-2.03418	-2.38576	-1.55775	-1.65599	-1.91505
14.000	-5.00000	1935.75789	51.09733	565.18574	-1.87262	-2.04036	-2.34717	-1.55525	-1.67864	-1.89712
16.000	-5.00000	1935.34929	51.08156	565.01133	-1.85935	-2.05298	-2.34023	-1.55994	-1.69607	-1.90226
18.000	-5.00000	1935.29300	51.07937	564.98677	-1.86593	-2.06426	-2.35197	-1.56574	-1.71425	-1.92257
20.000	-5.00000	1934.35158	51.05967	564.76923	-1.87051	-2.06956	-2.36364	-1.58045	-1.73012	-1.94531
22.000	-5.00000	1934.81860	51.07553	564.54459	-1.88436	-2.07834	-2.38230	-1.60205	-1.74972	-1.97433
24.000	-5.00000	1934.05580	51.04761	564.63582	-1.91422	-2.10009	-2.39308	-1.63486	-1.77706	-1.99597
GRADIENT	.00000	.12834	.00308	.03410	.00551	.00928	.04435	.00288	.00540	.02717

RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500

ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
3.500	-5.00000	2547.37308	33.36888	508.60840	-3.32394	-3.53519	-4.91713	-2.71229	-2.65897	-3.75755
2.000	-5.00000	2547.81790	33.37489	508.70000	-3.29012	-3.48614	-4.74049	-2.69425	-2.65805	-3.65763
4.000	-5.00000	2546.94196	33.36334	508.53317	-3.25690	-3.46299	-4.53554	-2.67316	-2.81754	-3.53320
6.000	-5.00000	2547.50006	33.37128	508.64510	-3.24640	-3.46596	-4.40755	-2.67095	-2.82537	-3.45818
8.000	-5.00000	2547.17203	33.36708	508.58098	-3.23184	-3.47225	-4.26844	-2.66550	-2.83565	-3.38893
10.000	-5.00000	2551.36157	33.42099	509.40276	-3.20237	-3.48840	-4.24811	-2.65350	-2.85714	-3.37801
12.000	-5.00000	2555.54724	33.47640	510.24735	-3.18192	-3.49245	-4.14541	-2.64441	-2.86993	-3.31918
14.000	-5.00000	2558.82321	33.51909	510.39791	-3.15964	-3.50871	-4.07511	-2.64557	-2.89811	-3.29557
16.000	-5.00000	2563.66443	33.58292	512.67409	-3.15916	-3.54040	-4.11348	-2.65907	-2.93734	-3.24297
18.000	-5.00000	2567.71115	33.63562	512.87409	-3.16349	-3.55912	-4.14632	-2.67508	-2.96730	-3.26438
20.000	-5.00000	2572.38371	33.69739	513.51562	-3.17442	-3.55430	-4.16433	-2.70254	-2.98604	-3.24938
22.000	-5.00000	2578.11011	33.77192	514.75153	-3.17442	-3.60477	-4.21541	-2.72222	-3.04651	-3.19083
24.000	-5.00000	2578.93777	33.78332	514.92529	-3.28598	-3.65244	-4.25677	-2.72244	-3.09979	-3.15438
GRADIENT	.00000	.10779	.00123	.01880	.01678	.01805	.09515	.00978	.01026	.05609

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(EE7C04) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.550	.000	-2.00000	1574.43616	398.83030	1039.23260	-1.5358	-1.6792	-1.9593	-1.1490	-1.2524	-1.4524
2.000	.000	-2.00000	1573.92516	398.70513	1038.90645	-1.5107	-1.7186	-1.8912	-1.1348	-1.2651	-1.4089
4.000	.000	-2.00000	1573.05887	398.48754	1038.32949	-1.4582	-1.6500	-1.8172	-1.1033	-1.2433	-1.3645
6.000	.000	-2.00000	1573.57761	398.62070	1038.69546	-1.4185	-1.5820	-1.7743	-1.0825	-1.2031	-1.3441
8.000	.000	-2.00000	1574.31830	398.81203	1039.18500	-1.3334	-1.4581	-1.7266	-1.0269	-1.1201	-1.3191
10.000	.000	-2.00000	1574.64256	398.88485	1039.37476	-1.3099	-1.4216	-1.6639	-1.0148	-1.0989	-1.2759
12.000	.000	-2.00000	1574.84332	398.93706	1039.51079	-1.3517	-1.4452	-1.6595	-1.0518	-1.1224	-1.2835
14.000	.000	-2.00000	1574.93084	398.87534	1039.34999	-1.3631	-1.4498	-1.6310	-1.0565	-1.1325	-1.2636
16.000	.000	-2.00000	1575.31898	399.06065	1039.83284	-1.3562	-1.4594	-1.6352	-1.0978	-1.1461	-1.2799
18.000	.000	-2.00000	1575.34929	399.06559	1039.84596	-1.327	-1.5132	-1.6911	-1.1383	-1.2005	-1.3374
20.000	.000	-2.00000	1574.16409	398.76549	1039.06374	-1.4680	-1.6338	-1.7323	-1.1854	-1.2625	-1.3927
22.000	.000	-2.00000	1574.15891	398.76766	1039.06938	-1.5449	-1.6338	-1.7323	-1.2525	-1.3274	-1.4250
24.000	.000	-2.00000	1574.84804	399.94400	1039.52890	-1.5221	-1.7133	-1.8339	-1.3214	-1.3937	-1.4889
GRADIENT		.00000	-1.34433	-1.08569	-1.22328	.00194	.00073	.00355	.00114	.00023	.00620

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.750	.000	-2.00000	1650.91153	310.07585	1067.69946	-2.8817	-3.1931	-3.8787	-2.1681	-2.3881	-2.8634
2.000	.000	-2.00000	1652.84775	310.44413	1068.95416	-2.8031	-3.2017	-3.9644	-2.1245	-2.4085	-2.9402
4.000	.000	-2.00000	1653.86585	310.63169	1069.60322	-2.7972	-3.3359	-3.9774	-2.1193	-2.3614	-2.9003
6.000	.000	-2.00000	1654.30329	310.72412	1069.92824	-2.7383	-2.9706	-3.6714	-2.0849	-2.2520	-2.6984
8.000	.000	-2.00000	1653.79341	310.62094	1069.57295	-2.6748	-2.9044	-3.4523	-2.0522	-2.2190	-2.6115
10.000	.000	-2.00000	1654.31114	310.72391	1069.92749	-2.6488	-2.8405	-3.3117	-2.0468	-2.1875	-2.5290
12.000	.000	-2.00000	1655.30827	310.90964	1070.56705	-2.6331	-2.8091	-3.1931	-2.0530	-2.1835	-2.4655
14.000	.000	-2.00000	1655.65390	310.97398	1070.78959	-2.6527	-2.8122	-3.1724	-2.0867	-2.1982	-2.4646
16.000	.000	-2.00000	1654.93356	310.83946	1070.32539	-2.6734	-2.8197	-3.1457	-2.1046	-2.2144	-2.4298
18.000	.000	-2.00000	1655.59514	310.95757	1070.75688	-2.6914	-2.8456	-3.1457	-2.1387	-2.2556	-2.4815
20.000	.000	-2.00000	1657.05319	311.24283	1071.71434	-2.7288	-2.9190	-3.2902	-2.1946	-2.3408	-2.6236
22.000	.000	-2.00000	1657.68335	311.35872	1072.11337	-2.7791	-2.9733	-3.3991	-2.2599	-2.4110	-2.7392
24.000	.000	-2.00000	1657.51363	311.32766	1072.90642	-2.8537	-3.0186	-3.4701	-2.3328	-2.4620	-2.8121
GRADIENT		.00000	.73503	.13871	.47761	.00211	.00143	.00072	.00121	.00067	.00092

(EE7C04) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0370

PARAMETRIC DATA

BETA =
AIRLON =
-2.000 ELEVON = .000
.000 BDFAP = -2.170

RN/L = 3.05 GRADIENT INTERVAL = -3.00/ 5.00

MACH = 2.000
ALPHA
.000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	OCOMP	DPT011	DPT0E1	DPT031	DPT013	DPT023	DPT033
-2.0000	1846.93443	235.90358	1094.69649	-51577	-57979	-71175	-39306	-43745	-52623
-2.0000	1846.41615	235.83478	1094.37723	-50476	-56394	-70916	-38548	-42784	-52628
-2.0000	1846.47842	235.84348	1094.41763	-49328	-55289	-69842	-38444	-42624	-52048
-2.0000	1847.01898	235.91540	1094.75133	-49170	-54346	-65766	-38183	-41879	-49933
-2.0000	1846.99838	235.91268	1094.73875	-49216	-54298	-63443	-38385	-42035	-48466
-2.0000	1846.95099	235.91120	1094.73189	-49146	-53347	-61351	-38482	-41518	-47201
-2.0000	1846.64996	235.85971	1094.53934	-48527	-52148	-59513	-38228	-40868	-46159
-2.0000	1846.54160	235.85366	1094.49269	-48000	-51548	-57710	-38227	-40853	-45354
-2.0000	1847.17949	235.94132	1094.87161	-47891	-51225	-56490	-38622	-41131	-45042
-2.0000	1846.84877	235.89543	1094.56352	-48827	-51953	-55655	-39530	-41961	-45375
-2.0000	1846.81461	235.89547	1094.62637	-48735	-52217	-58961	-39821	-42434	-47519
-2.0000	1847.35541	235.95847	1094.95123	-49843	-53647	-61501	-40858	-43778	-49717
-2.0000	1846.92696	235.78710	1094.15599	-50483	-53995	-62464	-41875	-44611	-51119
-2.0000	-111393	-101502	-106971	-100412	-100672	-100383	-100216	-100380	-100144

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250
ALPHA
.000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
-2.0000	2060.32037	178.19294	1069.48225	-78309	-88520	-112794	-62584	-68989	-86743
-2.0000	2059.99480	178.16426	1069.31013	-76918	-86618	-109117	-61761	-68807	-84983
-2.0000	2059.56003	178.12785	1069.09161	-76340	-85260	-106485	-61386	-67886	-82882
-2.0000	2060.01712	178.16692	1069.32610	-75246	-84053	-102451	-60628	-67059	-80138
-2.0000	2060.34959	178.19534	1069.49667	-74487	-82583	-99311	-60277	-65241	-78241
-2.0000	2060.24648	178.18648	1069.44347	-74182	-81686	-97047	-60295	-65847	-76998
-2.0000	2060.47052	178.18653	1069.44377	-74691	-81102	-94102	-60943	-65739	-75233
-2.0000	2060.24651	178.20513	1069.55143	-75074	-81159	-92249	-60943	-66302	-74175
-2.0000	2060.55393	178.21377	1069.60732	-75107	-80885	-90798	-61830	-66185	-73581
-2.0000	2060.3616	178.16844	1069.33524	-75894	-81441	-90431	-62847	-67077	-73886
-2.0000	2060.43616	178.16844	1069.33524	-75894	-81441	-90431	-62847	-67077	-73886
-2.0000	2060.43616	178.20315	1069.54353	-76977	-82497	-92751	-64060	-68363	-78083
-2.0000	2060.15353	178.17854	1069.39586	-76750	-82596	-94845	-64241	-68763	-78903
-2.0000	2060.04486	178.15328	1069.34026	-82311	-88845	-103286	-69698	-74784	-85903
-2.0000	-119038	-101627	-109767	-100492	-100841	-101577	-100294	-100526	-100973

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER - RAKES.

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
2.500	.000	-2.0000	1937.7722	87.59769	559.27209	-1.10894	-1.24624	-1.63370	-89109	-97710	-1.23873
2.000	2.000	-2.0000	1937.76450	87.59732	559.26928	-1.09774	-1.26965	-1.60319	-87468	-96742	-1.21780
4.000	4.000	-2.0000	1937.76714	87.59741	559.27001	-1.08344	-1.20748	-1.54593	-86612	-94389	-1.18916
6.000	6.000	-2.0000	1937.74226	87.59519	553.26081	-1.07251	-1.18358	-1.47944	-86153	-94083	-1.14421
8.000	8.000	-2.0000	1937.75372	87.59582	559.26557	-1.06894	-1.17070	-1.44281	-86095	-93327	-1.12261
10.000	10.000	-2.0000	1937.67010	87.59167	559.22676	-1.06113	-1.15719	-1.40929	-86070	-93018	-1.10744
12.000	12.000	-2.0000	1938.01534	87.61195	559.37941	-1.05456	-1.15072	-1.38636	-86418	-92652	-1.07370
14.000	14.000	-2.0000	1937.69499	87.41497	557.89693	-1.07223	-1.15530	-1.35036	-87431	-93512	-1.06040
16.000	16.000	-2.0000	1937.60895	87.41100	557.86705	-1.08702	-1.1666	-1.32536	-89138	-95012	-1.05454
18.000	18.000	-2.0000	1935.08078	87.43912	558.07667	-1.09902	-1.17977	-1.32981	-90649	-96558	-1.07612
20.000	20.000	-2.0000	1937.25993	87.38984	557.70778	-1.10897	-1.19098	-1.33427	-92003	-98157	-1.08717
22.000	22.000	-2.0000	1937.70457	87.41650	557.90915	-1.12478	-1.20724	-1.34061	-93561	-99769	-1.09642
24.000	24.000	-2.0000	1937.94550	87.43093	558.01747	-1.13915	-1.21598	-1.35739	-95589	-1.01526	-1.12063
GRADIENT		.00000	-1.00127	-1.00037	-1.00052	.00638	.00969	.02344	.00374	.00580	.01389

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
3.000	.000	-2.0000	1942.79845	51.29598	567.38300	-2.05092	-2.32688	-3.22856	-1.68257	-1.87846	-2.47700
2.000	2.000	-2.0000	1939.95528	51.22303	566.57606	-2.03265	-2.29316	-3.12439	-1.67186	-1.85781	-2.41548
4.000	4.000	-2.0000	1937.25540	51.15163	565.78529	-2.02665	-2.27388	-3.04926	-1.67050	-1.84776	-2.37254
6.000	6.000	-2.0000	1932.01018	51.02006	564.33104	-2.01759	-2.24154	-2.87727	-1.66602	-1.82731	-2.26353
8.000	8.000	-2.0000	1931.75623	51.01216	564.24371	-2.01659	-2.21939	-2.81938	-1.67008	-1.81704	-2.23283
10.000	10.000	-2.0000	1932.19310	51.02143	564.34621	-2.01474	-2.19532	-2.74306	-1.67304	-1.80466	-2.18819
12.000	12.000	-2.0000	1932.51784	51.02795	564.41837	-2.02132	-2.17770	-2.64945	-1.68316	-1.79782	-2.13206
14.000	14.000	-2.0000	1931.30728	50.98554	563.96030	-2.03798	-2.19927	-2.58781	-1.70196	-1.82067	-2.09651
16.000	16.000	-2.0000	1931.10713	51.00535	564.17945	-2.05778	-2.22671	-2.57625	-1.72605	-1.85127	-2.10345
18.000	18.000	-2.0000	1931.43526	50.93055	564.04479	-2.08065	-2.26071	-2.59624	-1.75315	-1.88751	-2.13143
20.000	20.000	-2.0000	1931.86768	50.99784	564.08523	-2.10028	-2.28525	-2.61710	-1.77744	-1.91641	-2.15949
22.000	22.000	-2.0000	1932.01346	51.00587	564.17412	-2.13502	-2.32350	-2.61158	-1.81343	-1.95611	-2.19038
24.000	24.000	-2.0000	1931.72012	50.99929	564.10132	-2.18062	-2.36542	-2.67279	-1.85997	-2.00013	-2.22770
GRADIENT		.00000	-1.32574	-1.03609	-1.39918	.00607	.01325	.04483	.00302	.00767	.02611

(EE7C04) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0080 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

BETA =
AILRON =

PARAMETRIC DATA
-2.000 ELEVON = .000
.000 BOFLAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.08/ 5.00

MACH.	ALPHA	BETA	P1	P	OCOMP	DPT021	DPT031	DPT043	DPT023	DPT033
3.500	.000	-2.00000	2608.0735	34.16512	520.74471	-3.98050	-5.80904	-2.88779	-3.25286	-4.44789
2.000	2.000	-2.00000	2609.47937	34.18432	521.03742	-3.90553	-5.62337	-2.87503	-3.20328	-4.33420
4.000	4.000	-2.00000	2610.52898	34.19798	521.24570	-3.84688	-5.36805	-2.86972	-3.18391	-4.18199
6.000	6.000	-2.00000	2614.11072	34.24500	521.96236	-3.81602	-5.05354	-2.87473	-3.14706	-3.98600
8.000	8.000	-2.00000	2614.27722	34.24722	521.99606	-3.76966	-4.94083	-2.88177	-3.12047	-3.92401
10.000	10.000	-2.00000	2619.19357	34.31230	522.98805	-3.76078	-4.81857	-2.90336	-3.11684	-3.86019
12.000	12.000	-2.00000	2615.71823	34.26563	522.27669	-3.73878	-4.69896	-2.90998	-3.11629	-3.72768
14.000	14.000	-2.00000	2617.88397	34.29432	522.71407	-3.79226	-4.54331	-2.94756	-3.16839	-3.70046
16.000	16.000	-2.00000	2615.77174	34.26626	522.28648	-3.91457	-4.54758	-2.93731	-3.24024	-3.72478
18.000	18.000	-2.00000	2617.10403	34.28431	522.56139	-3.97443	-4.56974	-3.03080	-3.29452	-3.76638
20.000	20.000	-2.00000	2615.61575	34.26406	522.25275	-3.97443	-4.62140	-3.07629	-3.35456	-3.82307
22.000	22.000	-2.00000	2619.49899	34.31592	523.04321	-4.03390	-4.68031	-3.13469	-3.41756	-3.88890
24.000	24.000	-2.00000	2624.04565	34.37457	523.94328	-4.12941	-4.75288	-3.21389	-3.50676	-3.96358
GRADIENT		.00000	.61442	.00822	.12524	.03340	.11000	.00377	.02223	.05647

TABULATED DATA - OA161 (ARC 11-97-87-09*)
ARC 11-97-87-09* OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
.600	.0000	.0000	2635.13434	2067.16983	568.96451	.00252	.00301	.00148	.00200	.00242	.00117
.800	.0000	.0000	2635.45282	2067.42532	569.02750	.00184	.00182	.00157	.00147	.00145	.00126
2.000	.0000	.0000	2638.36844	2068.84036	569.52808	.00202	.00241	.00191	.00162	.00193	.00153
4.000	.0000	.0000	2635.63572	2067.04514	568.79059	.00018	.00106	.00250	.00015	.00085	.00201
6.000	.0000	.0000	2635.20016	2067.24875	568.95142	.00191	.00060	.00119	.00154	.00048	.00096
8.000	.0000	.0000	2635.93494	2067.10458	568.83035	.00060	.00216	.00073	.00049	.00177	.00260
10.000	.0000	.0000	2635.45613	2066.78952	568.67661	.00024	.00065	.00004	.00020	.00054	.00004
12.000	.0000	.0000	2635.11769	2067.19876	568.91891	.00015	.00002	.00170	.00125	.00002	.00143
14.000	.0000	.0000	2635.08533	2067.16296	568.92236	.00015	.00016	.00106	.00013	.00140	.00091
16.000	.0000	.0000	2638.61063	2066.99408	569.61655	.00419	.00298	.00435	.00368	.00262	.00382
18.000	.0000	.0000	2638.47891	2066.12332	569.61655	.00934	.00608	.01039	.00834	.00544	.00929
20.000	.0000	.0000	2634.47891	2066.55417	567.55264	.01760	.01391	.02391	.01603	.01267	.02177
22.000	.0000	.0000	2630.10681	2061.72564	567.94977	.03432	.02749	.04715	.03201	.02565	.04394
24.000	.0000	.0000	2629.67941	2061.72564	567.94977	.00012	.00016	.00011	.00010	.00012	.00009
GRADIENT			.55853	.41762	.14089						

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
.900	.0000	.0000	2113.98108	1249.92923	864.05185	.00124	.00016	.00017	.00092	.00012	.00012
2.000	.0000	.0000	2112.05286	1248.77386	863.27899	.00095	.00017	.00072	.00071	.00088	.00054
4.000	.0000	.0000	2118.18939	1252.35219	865.83621	.00003	.00184	.00186	.00003	.00140	.00142
6.000	.0000	.0000	2114.64374	1250.29912	864.34464	.00165	.00175	.00291	.00128	.00135	.00226
8.000	.0000	.0000	2110.03122	1247.57364	862.45758	.00084	.00163	.00195	.00066	.00129	.00153
10.000	.0000	.0000	2112.73361	1249.11789	863.61572	.00203	.00063	.00117	.00162	.00050	.00093
12.000	.0000	.0000	2114.69836	1250.25999	864.43839	.00066	.00018	.00045	.00053	.00015	.00037
14.000	.0000	.0000	2117.13947	1251.72624	865.41324	.00230	.00176	.00283	.00190	.00145	.00234
16.000	.0000	.0000	2113.69510	1249.47339	864.96329	.00251	.00142	.00220	.00213	.00121	.00187
18.000	.0000	.0000	2111.35150	1248.25099	863.82172	.00425	.00253	.00303	.00356	.00216	.00261
20.000	.0000	.0000	2111.35150	1248.25099	863.10052	.00771	.00533	.00754	.00674	.00466	.00659
22.000	.0000	.0000	2110.78241	1247.85742	862.92439	.01274	.00924	.01494	.01138	.00826	.01335
24.000	.0000	.0000	2113.14288	1249.38358	863.75031	.02366	.01789	.03073	.02167	.01640	.02814
GRADIENT			1.05164	.60574	.44609	.03032	.00050	.03042	.00024	.00038	.00032

(EE7005) (02 AUG 75)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 BDFEAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-57-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 107E.6800 IN. XQ
 LREF = 477.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RW/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.550	.0000	.0000	1580.54596	401.10618	1045.16287	.16358	.17803	.20498	.12471	.13532	.15496
2.000	.0000	.0000	1581.96228	401.46997	1046.11082	.16154	.18612	.20018	.12378	.14118	.15220
4.000	.0000	.0000	1581.60366	401.36976	1045.84958	.16062	.18194	.19880	.12325	.13902	.15139
6.000	.0000	.0000	1581.71835	401.39628	1045.91879	.15594	.17177	.19359	.12085	.13270	.14694
8.000	.0000	.0000	1582.28792	401.54744	1046.31267	.14628	.15864	.18379	.11423	.12359	.14250
10.000	.0000	.0000	1584.01578	401.96475	1047.40005	.14756	.15786	.18256	.11554	.12336	.14208
12.000	.0000	.0000	1584.74577	402.14309	1047.86478	.14893	.15941	.18043	.11669	.12509	.14103
14.000	.0000	.0000	1584.30254	402.03269	1047.57710	.15002	.15774	.18043	.11669	.12509	.14103
16.000	.0000	.0000	1584.53708	402.03357	1047.72572	.15330	.16113	.17809	.11669	.12509	.14103
18.000	.0000	.0000	1585.24020	402.26379	1048.17926	.15781	.16948	.19025	.12738	.13654	.15275
20.000	.0000	.0000	1585.26917	402.27295	1048.20312	.16249	.17208	.18695	.13196	.13953	.15123
22.000	.0000	.0000	1584.67165	402.12355	1047.91364	.16568	.17372	.18574	.13479	.14115	.15062
24.000	.0000	.0000	1584.25276	402.01130	1047.53178	.17024	.18822	.20276	.13954	.14750	.15636
GRADIENT			.26428	.06590	.17171	.00074	.08098	.00155	.00036	.00093	.00089

RW/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.750	.0000	.0000	1657.74608	311.37225	1072.15987	.30791	.34903	.40668	.23458	.25755	.30436
2.000	.0000	.0000	1657.99376	311.41864	1072.31970	.30197	.34026	.41095	.23198	.25962	.30969
4.000	.0000	.0000	1657.20947	311.27179	1071.51404	.29949	.33480	.40743	.23020	.25574	.30726
6.000	.0000	.0000	1656.47336	311.13422	1071.34035	.29182	.31481	.37631	.22499	.24173	.28585
8.000	.0000	.0000	1657.27675	311.28436	1071.85733	.28323	.31055	.36261	.22090	.24107	.27971
10.000	.0000	.0000	1657.32759	311.29292	1071.88681	.28371	.30395	.34997	.22266	.23774	.27165
12.000	.0000	.0000	1656.50283	311.14008	1071.35053	.27965	.30138	.33759	.22072	.23711	.26403
14.000	.0000	.0000	1657.07672	311.24621	1071.72598	.28071	.29902	.33176	.22393	.23784	.26253
16.000	.0000	.0000	1656.60486	311.15869	1071.42461	.28839	.30509	.33093	.23076	.24350	.26358
18.000	.0000	.0000	1656.32849	311.10677	1071.24582	.29490	.31558	.35775	.23479	.25246	.28438
20.000	.0000	.0000	1656.80373	311.10677	1071.54903	.29924	.31957	.36722	.24179	.25753	.29378
22.000	.0000	.0000	1657.27647	311.28266	1071.85149	.30405	.32274	.36907	.24814	.26270	.29846
24.000	.0000	.0000	1657.16254	311.26139	1071.77823	.31414	.33202	.38293	.25760	.27160	.31128
GRADIENT			.13413	.02512	.08649	.00211	.00131	.00018	.00110	.00045	.00073

(EE7C05) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-894)

ARC 11-97-87-894 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.8800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YQ
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
 SCALE = .0300

BETA = .000 ELEVON = .009
 ALLRON = .000 BDFLAP = -.178

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
	.0000	.0000	1847.14075	235.84824	1094.43847	-.56412	-.63886	-.76831	-.43693	-.48959	-.57847
	2.000	.0000	1846.77534	235.80064	1094.21881	-.55419	-.61392	-.74523	-.42989	-.47215	-.56257
	4.000	.0000	1847.06482	235.83635	1094.37987	-.54205	-.59898	-.71868	-.42313	-.46382	-.54740
	6.000	.0000	1846.70287	235.79372	1094.17278	-.53469	-.59376	-.70478	-.42013	-.46273	-.54093
	8.000	.0000	1846.84723	235.80916	1094.25836	-.53104	-.58770	-.68501	-.42121	-.46261	-.53226
	10.000	.0000	1847.73077	235.93651	1094.84830	-.52309	-.57039	-.68438	-.41763	-.45256	-.51352
	12.000	.0000	1847.06197	235.84271	1094.41463	-.52980	-.57265	-.64677	-.42343	-.45512	-.50929
	14.000	.0000	1846.76268	235.79962	1094.21408	-.52880	-.56913	-.64385	-.42368	-.45384	-.50826
	16.000	.0000	1846.78920	235.81072	1094.26558	-.53106	-.56944	-.62767	-.42799	-.45670	-.49973
	18.000	.0000	1846.62433	235.78563	1094.14917	-.53218	-.57078	-.63817	-.43411	-.46267	-.51313
	20.000	.0000	1846.85009	235.81953	1094.30649	-.53507	-.57727	-.66212	-.43859	-.47085	-.53476
	22.000	.0000	1846.82697	235.81627	1094.29134	-.54303	-.58345	-.67217	-.44905	-.48030	-.54790
	24.000	.0000	1845.84973	235.68645	1093.68892	-.55362	-.59260	-.68004	-.46346	-.49407	-.56184
	GRADIENT	.00000	-.01898	-.00322	-.01495	.00552	.00997	.01251	.00345	.00643	.00772

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
	.0000	.0000	2059.62274	178.13523	1059.13588	-.85988	-.97562	-.123275	-.68598	-.76837	-.94485
	2.000	.0000	2059.69022	178.14101	1059.17859	-.84598	-.95746	-.119469	-.67851	-.75895	-.92364
	4.000	.0000	2059.24142	178.10249	1058.93941	-.83437	-.93108	-.115429	-.67337	-.74365	-.90123
	6.000	.0000	2053.67995	178.13995	1059.16425	-.82035	-.91635	-.110395	-.66401	-.73443	-.87202
	8.000	.0000	2059.63947	178.17654	1059.14375	-.81262	-.90217	-.108758	-.66012	-.72613	-.85932
	10.000	.0000	2059.11798	178.09175	1058.87497	-.80425	-.88834	-.104415	-.65604	-.71647	-.83139
	12.000	.0000	2058.74341	178.05964	1058.68244	-.80399	-.87420	-.101611	-.65851	-.71191	-.81491
	14.000	.0000	2059.55093	178.12881	1059.09737	-.80634	-.86903	-.99455	-.65310	-.71027	-.80301
	16.000	.0000	2059.35752	178.11318	1059.00397	-.80597	-.85779	-.97782	-.65566	-.71281	-.79482
	18.000	.0000	2058.63930	178.05788	1058.73170	-.81023	-.87412	-.98680	-.67271	-.72189	-.80597
	20.000	.0000	2058.20343	178.09903	1058.91862	-.82368	-.88917	-.102129	-.68748	-.73759	-.84159
	22.000	.0000	2058.94348	178.07670	1058.78462	-.83066	-.89438	-.102763	-.69620	-.74540	-.85433
	24.000	.0000	2058.85312	178.06958	1058.73825	-.83841	-.90566	-.103669	-.70787	-.75776	-.86591
	GRADIENT	.00000	-.09532	-.00818	-.04911	.00640	.01111	.01561	.00313	.00513	.01090

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 OF POOR QUALITY

(EE7C05) (02 AUG 75)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 EBFAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500
ALPHA = .000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	QCOMP	DPT011	DPT0E1	DPT031	DPT013	DPT023	DPT033
.00000	1495.02940	87.42978	558.00838	-1.21777	-1.38700	-1.79990	-1.97702	-1.05625	-1.37282
.00000	1495.07198	87.43218	558.02643	-1.20359	-1.35870	-1.76228	-1.95628	-1.07922	-1.35078
.00000	1494.35016	87.38912	557.70236	-1.19186	-1.33043	-1.69208	-1.93222	-1.06232	-1.31012
.00000	1494.94664	87.42504	557.97271	-1.18237	-1.31533	-1.69208	-1.93222	-1.05488	-1.26373
.00000	1495.11034	87.43430	558.04689	-1.16731	-1.29523	-1.58758	-1.95068	-1.04342	-1.24603
.00000	1494.33298	87.39847	557.69749	-1.15643	-1.27250	-1.54892	-1.94822	-1.02470	-1.22470
.00000	1494.36853	87.42741	557.99431	-1.15428	-1.25716	-1.48504	-1.94657	-1.02249	-1.18549
.00000	1494.32796	87.38815	557.69506	-1.15213	-1.25045	-1.44960	-1.95052	-1.02345	-1.16768
.00000	1494.89258	87.42212	557.95069	-1.15069	-1.25876	-1.43960	-1.95877	-1.03339	-1.15515
.00000	1494.35973	87.39025	557.71050	-1.16769	-1.26093	-1.42026	-1.95117	-1.04110	-1.15852
.00000	1494.85466	87.41989	557.93397	-1.18237	-1.26989	-1.42113	-1.96577	-1.05268	-1.16495
.00000	1494.36290	87.39047	557.71252	-1.20418	-1.29558	-1.44744	-1.00730	-1.07669	-1.16933
.00000	1494.89579	87.42173	557.94775	-1.23276	-1.31914	-1.46656	-1.03550	-1.10124	-1.21159
.00000	1494.16982	-0.01016	-0.07650	-0.0648	-0.01414	-0.26596	-0.03445	-0.00848	-0.01567

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000
ALPHA = .000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	QCOMP	DPT011	DPT0E1	DPT031	DPT013	DPT023	DPT033
.00000	1940.57863	51.17667	556.06326	-2.26207	-2.63539	-3.53935	-1.86253	-2.12692	-2.78860
.00000	1940.33086	51.16886	555.97688	-2.23896	-2.57240	-3.53466	-1.84704	-2.06454	-2.72510
.00000	1939.42018	51.14571	555.72091	-2.21732	-2.51659	-3.40634	-1.83373	-2.04848	-2.64777
.00000	1939.65381	51.15674	555.84290	-2.20925	-2.49326	-3.23637	-1.83198	-2.03636	-2.54411
.00000	1938.91023	51.13770	555.63232	-2.19275	-2.46275	-3.15322	-1.82344	-2.01921	-2.49570
.00000	1939.71480	51.16337	555.88296	-2.18566	-2.43358	-3.04560	-1.82282	-2.00370	-2.43377
.00000	1939.08339	51.14639	555.72841	-2.17243	-2.38565	-2.90633	-1.81905	-1.97598	-2.34531
.00000	1939.37943	51.15133	555.78307	-2.18342	-2.38865	-2.84785	-1.83379	-1.96537	-2.31447
.00000	1938.72555	51.13805	555.63618	-2.20522	-2.41256	-2.80772	-1.85951	-2.01078	-2.29550
.00000	1939.37152	51.15323	555.80401	-2.23301	-2.43012	-2.79081	-1.86743	-2.03505	-2.29755
.00000	1939.61790	51.16009	555.87995	-2.27276	-2.46866	-2.81287	-1.87734	-2.07474	-2.32700
.00000	1938.80849	51.13827	555.63856	-2.27218	-2.52921	-2.87728	-1.97713	-2.12932	-2.38517
.00000	1939.35316	51.15332	555.80502	-2.36240	-2.56166	-2.88599	-2.01392	-2.16456	-2.40502
.00000	1939.28961	-0.00774	-0.08559	-0.01119	-0.02962	-0.5826	-0.0720	-0.01561	-0.03521

(EE7005) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0330

BETA = .000 ELEVON = .000
ALIGN = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500
ALPHA = .000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	OCOMP	DPTQ11	DPTQ21	DPTQ31	DPTQ13	DPTQ23	DPTQ33
.00000	2633.31985	34.57549	526.99953	-3.78903	-4.48493	-6.57430	-3.17087	-3.66532	-5.02495
.00000	2640.21666	34.58445	527.13617	-3.74498	-4.37602	-6.37896	-3.13909	-3.59078	-4.90630
.00000	2640.89996	34.59589	527.31057	-3.71454	-4.28688	-6.09414	-3.11750	-3.52898	-4.73082
.00000	2644.64435	34.64481	528.05621	-3.68747	-4.25170	-5.74018	-3.10261	-3.51034	-4.51609
.00000	2646.62357	34.67127	528.45953	-3.66801	-4.17108	-5.52709	-3.09638	-3.46289	-4.39308
.00000	2646.60231	34.67362	528.49525	-3.67166	-4.13431	-5.31406	-3.10664	-3.44583	-4.26589
.00000	2647.36554	34.68086	528.60566	-3.67723	-4.09457	-5.07631	-3.12111	-3.41560	-4.12212
.00000	2652.42508	34.74652	529.60644	-3.72200	-4.07609	-4.98029	-3.16356	-3.43980	-4.07031
.00000	2653.07376	34.75490	529.73420	-3.75506	-4.13523	-4.87109	-3.20075	-3.46281	-4.01187
.00000	2650.25250	34.71894	529.18607	-3.82745	-4.19653	-4.89528	-3.27086	-3.54684	-4.05375
.00000	2651.57239	34.73560	529.43997	-3.85142	-4.27056	-4.95039	-3.32905	-3.61293	-4.10651
.00000	2652.55411	34.74832	529.63383	-3.97815	-4.36601	-5.04795	-3.41437	-3.70534	-4.20452
.00000	2651.96234	34.74070	529.51771	-4.07794	-4.46246	-5.14205	-3.50359	-3.79349	-4.29117
.00000	.39504	.00510	.07776	.01862	.04951	.12004	.01334	.03433	.07353

(507033) 02 AUG 75

PARAMETRIC DATA

BETA	=	2.000	ELEVON	=	-0.000
AILPCN	=	.000	BDFLAP	=	-7.170

STANDARD DATA - DA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER ♦ RAKES

REFERENCE DATA

=	SREF	=	2690.0000	SQ.FT.	=	YMRP	=	1076.6800	IN.	X0
=	LREF	=	474.8000	IN.	=	YMRP	=	.0000	IN.	Y0
=	BREF	=	936.6800	IN.	=	ZMRP	=	375.0000	IN.	Z0
=	SCALE	=	.0300							

BN/1 = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600
ALPHA

	ALPHA	BETA	PT	P	QCOMP	DPTQ11	DPTQ21	DPTQ31	DPTQ13	DPTQ23	DPTQ33
.000	2.00000	2628.99527	2050.85532	567.22995	567.22995	.00183	.00234	.00093	.00151	.00193	.00077
2.000	2.00000	2625.49564	2058.85480	566.54084	566.54084	.00229	.00228	.00036	.00188	.00187	.00029
4.000	2.00000	2627.76655	2060.48969	567.27655	567.27655	.00238	.00290	.00178	.00196	.00238	.00147
6.000	2.00000	2627.00064	2059.99554	567.00510	567.00510	.00183	.00105	.00194	.00152	.00087	.00161
8.000	2.00000	2626.97894	2060.00323	566.97571	566.97571	.00132	.00114	.00139	.00110	.00096	.00117
10.000	2.00000	2626.30542	2059.46654	566.87888	566.87888	.00232	.00103	.00123	.00197	.00092	.00104
12.000	2.00000	2626.31223	2059.48074	566.83148	566.83148	.00244	.00260	.00300	.00299	.00222	.00256
14.000	2.00000	2628.99167	2061.44455	567.54712	567.54712	.00022	.00019	.00301	.00019	.00116	.00105
16.000	2.00000	2627.44873	2060.24384	567.20490	567.20490	.00039	.00024	.00060	.00035	.00021	.00053
18.000	2.00000	2626.31006	2059.46307	566.84699	566.84699	.00222	.00085	.00295	.00199	.00077	.00264
20.000	2.00000	2627.65559	2059.71997	566.93661	566.93661	.00824	.00621	.00931	.00750	.00570	.00855
22.000	2.00000	2627.28891	2057.95145	566.33746	566.33746	.01760	.01420	.02165	.01633	.01318	.02008
24.000	2.00000	2623.73047	2057.53900	566.19117	566.19117	.03433	.02642	.04425	.03251	.02503	.04188
						.00014	.00014	.00021	.00011	.00031	

$R^2/1 = 4.23$ GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

ALPHA	BETA	PT	P	QCOMP	DT011	DT021	DT031	DT013	DT023	DT033
.900	2.00000	2112.48575	1258.91620	863.56955	.00141	.00078	.00126	.00109	.00056	.00123
.900	2.00000	2115.92145	1251.94158	864.87988	.00107	.00081	.00170	.00084	.00054	.00097
2.000	2.00000	2119.15109	1252.90967	866.24142	.00003	.00025	.00074	.00002	.00020	.00034
4.000	2.00000	2117.58701	1251.97867	865.60834	.00008	.00024	.00044	.00071	.00019	.00035
6.000	2.00000	2114.79024	1250.37154	864.42252	.00028	.00011	.00016	.00022	.00009	.00013
8.000	2.00000	2119.07846	1252.94572	866.12875	.00067	.00055	.00055	.00035	.00045	.00045
10.000	2.00000	2115.97958	1251.67672	864.90286	.00041	.00002	.00056	.00033	.00001	.00055
12.000	2.00000	2114.68269	1250.28664	864.39597	.00080	.00003	.00064	.00068	.00003	.00054
14.000	2.00000	2115.93549	1251.61702	865.28849	.00067	.00004	.00065	.00059	.00004	.00143
16.000	2.00000	2117.39959	1251.88719	865.51141	.00055	.00019	.00037	.00034	.00058	.00032
18.000	2.00000	2115.91051	1251.01956	864.89105	.00078	.00021	.00015	.00005	.00070	.00055
20.000	2.00000	2110.44658	1247.78032	862.56608	.01244	.00835	.01432	.01140	.01311	.01311
22.000	2.00000	2109.08910	1246.91112	862.17700	.00360	.01688	.03024	.02200	.01574	.02818
24.000	2.00000	2109.08910	1246.91112	862.17700	.00335	.00012	.00050	.00027	.00009	.00039
PERCENT	.00000	1.66635	.99336	.66797						

IN316860
003-43

(EETCCS) 1 02 AUG 75

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALTRON = .000 EDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPTQ11	DPTQ21	DPTQ31	DPTQ13	DPTQ23	DPTQ33
1.200	.000	2.00000	2009.55424	828.76637	1166.48930	-.01550	-.01687	-.01739	-.01238	-.01347	-.01389
2.000	.000	2.00000	2008.90266	828.44971	1166.04420	-.01502	-.01660	-.01790	-.01265	-.01354	-.01459
4.000	.000	2.00000	2009.08081	828.45160	1166.04684	-.01476	-.01537	-.01601	-.01219	-.01269	-.01322
6.000	.000	2.00000	2012.49275	829.50759	1167.67390	-.01548	-.01625	-.01741	-.01291	-.01355	-.01452
8.000	.000	2.00000	2012.15788	829.57092	1167.62230	-.01678	-.01603	-.01657	-.01328	-.01359	-.01518
10.000	.000	2.00000	2011.92180	829.36008	1167.32553	-.01508	-.01623	-.01656	-.01243	-.01343	-.01373
12.000	.000	2.00000	2013.54626	829.94049	1168.14247	-.01471	-.01533	-.01706	-.01170	-.01224	-.01277
14.000	.000	2.00000	2015.19850	830.40101	1168.79365	-.01630	-.01619	-.01770	-.01465	-.01479	-.01348
16.000	.000	2.00000	2013.69295	829.94411	1166.14755	-.01812	-.01771	-.01773	-.01432	-.01432	-.01431
18.000	.000	2.00000	2013.23676	829.85232	1168.03244	-.02028	-.01868	-.01944	-.01561	-.01561	-.01564
20.000	.000	2.00000	2017.18069	830.97342	1169.59531	-.02295	-.02193	-.02355	-.01565	-.01607	-.01555
22.000	.000	2.00000	2019.10837	831.89206	1170.59317	-.02818	-.02554	-.02640	-.02341	-.02131	-.02350
24.000	.000	2.00000	2020.01411	832.02087	1171.07062	-.03593	-.03188	-.03581	-.03550	-.02651	-.03059
GRADIENT		.00000	-.11837	-.07869	-.11077	.00018	.00037	.00034	.00005	.00020	.00017

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPTQ11	DPTQ21	DPTQ31	DPTQ13	DPTQ23	DPTQ33
1.400	.000	2.00000	2044.20187	642.54803	1316.73216	-.09216	-.10413	-.10345	-.06951	-.07826	-.07783
2.000	.000	2.00000	2045.48904	643.12830	1317.92126	-.08582	-.09785	-.09308	-.06599	-.07516	-.07145
4.000	.000	2.00000	2041.44493	641.78355	1315.16575	-.08540	-.09602	-.09277	-.06513	-.07419	-.07173
6.000	.000	2.00000	2044.57449	642.62668	1315.89333	-.08144	-.09223	-.08435	-.06364	-.07042	-.07400
8.000	.000	2.00000	2040.73653	641.70628	1315.00722	-.08248	-.09133	-.08554	-.06447	-.07130	-.07457
10.000	.000	2.00000	2035.77562	640.44118	1312.41475	-.08201	-.09213	-.08854	-.06425	-.07228	-.06936
12.000	.000	2.00000	2036.94429	640.72521	1312.99580	-.08204	-.09105	-.08622	-.06425	-.07156	-.06767
14.000	.000	2.00000	2039.66587	641.42471	1314.43022	-.08467	-.09401	-.08853	-.06425	-.07345	-.06930
16.000	.000	2.00000	2039.82769	641.40276	1314.38522	-.08564	-.09501	-.08913	-.06425	-.07550	-.07338
18.000	.000	2.00000	2039.32977	641.26414	1314.10118	-.09060	-.09933	-.09329	-.06425	-.07921	-.08387
20.000	.000	2.00000	2033.81595	639.92600	1311.35902	-.09828	-.10673	-.10256	-.06425	-.08506	-.08745
22.000	.000	2.00000	2023.58153	637.19749	1305.76765	-.10453	-.11083	-.11121	-.06425	-.08907	-.08935
24.000	.000	2.00000	2021.60355	636.67337	1304.70592	-.11039	-.11745	-.11932	-.06425	-.09522	-.09534
GRADIENT		.00000	-.189321	-.19109	-.39150	.00169	.00204	.00257	.00054	.00154	.00153

REPRODUCED BY
OF POL. QUALITY

11-97-87-094

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = 2.000 ELEVON = .000
AIRFOY = .000 EOF LAP = -7.170

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000

ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
.000	2.00000	1845.98239	235.71697	1093.83054	-.61634	-.70006	-.62412	-.45550	-.54545	-.63193
2.000	2.00000	1845.69019	235.68356	1093.67549	-.61139	-.68398	-.61553	-.48170	-.52639	-.62857
4.000	2.00000	1844.79526	235.55110	1093.10722	-.60631	-.67441	-.60674	-.47913	-.52826	-.61435
6.000	2.00000	1844.06950	235.46565	1092.66437	-.59563	-.65979	-.59732	-.47145	-.51790	-.59403
8.000	2.00000	1845.05612	235.59471	1093.26320	-.58219	-.63769	-.58219	-.45923	-.47471	-.58313
10.000	2.00000	1845.94762	235.71702	1093.83081	-.57481	-.62860	-.57481	-.45223	-.45897	-.56414
12.000	2.00000	1845.38353	235.63526	1093.45602	-.57557	-.62451	-.57557	-.45376	-.45221	-.55568
14.000	2.00000	1845.05315	235.72144	1093.85130	-.57514	-.62124	-.57514	-.46730	-.50201	-.55956
16.000	2.00000	1846.19932	235.73932	1093.93427	-.57654	-.61861	-.57654	-.47153	-.50355	-.55719
18.000	2.00000	1846.65709	235.79776	1094.20544	-.58325	-.62540	-.58325	-.47553	-.51429	-.56657
20.000	2.00000	1847.25053	235.88823	1094.62527	-.59358	-.63934	-.59358	-.48506	-.52411	-.56679
22.000	2.00000	1847.20595	235.88139	1094.59354	-.60227	-.64528	-.60227	-.49393	-.53210	-.56473
24.000	2.00000	1846.34912	235.77158	1094.08394	-.61787	-.65278	-.61787	-.51853	-.55391	-.56794
GRADIENT	.00000	-.29551	-.03897	-.18083	.00251	.05641	.05641	.00159	.00430	.00439

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250

ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
.000	2.00000	2059.21463	178.10005	1068.92479	-.95530	-.10915	-.13537	-.75581	-.86269	-.102865
2.000	2.00000	2059.05592	178.08647	1068.84325	-.94199	-.10756	-.131923	-.7653	-.87355	-.10809
4.000	2.00000	2059.36257	178.11435	1069.01056	-.92933	-.10454	-.12653	-.74331	-.86357	-.99059
6.000	2.00000	2059.13321	178.09820	1068.91354	-.91352	-.101531	-.12315	-.74182	-.86220	-.99358
8.000	2.00000	2059.07935	178.08938	1068.85469	-.90180	-.99905	-.11903	-.73925	-.86693	-.95597
10.000	2.00000	2059.48004	178.12256	1069.05988	-.89391	-.9764	-.115910	-.7393	-.86663	-.91258
12.000	2.00000	2058.62602	178.04962	1068.62146	-.88002	-.95425	-.111619	-.7395	-.86159	-.89059
14.000	2.00000	2059.07443	178.08753	1069.85205	-.87802	-.94651	-.108550	-.72005	-.77264	-.87573
16.000	2.00000	2058.61588	178.04855	1068.61555	-.88302	-.95203	-.108770	-.72883	-.77132	-.87710
18.000	2.00000	2058.53250	178.04136	1068.57248	-.88446	-.95172	-.111239	-.73036	-.78853	-.90028
20.000	2.00000	2058.52411	178.04055	1068.55753	-.89374	-.9474	-.113562	-.7391	-.82267	-.92169
22.000	2.00000	2058.59705	178.04666	1068.60429	-.90338	-.100409	-.11641	-.7595	-.8527	-.95169
24.000	2.00000	2058.37755	178.02781	1068.49115	-.91941	-.93546	-.114935	-.77162	-.82834	-.94428
GRADIENT	.00000	.04199	.00357	.02144	.00634	.01175	.01175	.00357	.00593	.00942

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 938.6800 IN. ZMRP = 373.0000 IN. Z0
SCALE = .0360

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
2.500	.000	2.00000	1487.32057	86.97802	654.50834	-1.32911	-1.52129	-1.93966	-1.07166	-1.20731	-1.48936
2.000	2.000	2.00000	1487.98101	87.01936	654.91260	-1.31996	-1.50150	-1.90831	-1.06678	-1.19555	-1.47073
4.000	4.000	2.00000	1487.96725	87.01707	654.90228	-1.38074	-1.46032	-1.84428	-1.05510	-1.18902	-1.43210
6.000	6.000	2.00000	1487.96211	87.01669	654.89940	-1.28284	-1.43252	-1.78141	-1.04578	-1.15389	-1.39689
8.000	8.000	2.00000	1487.95708	87.01653	654.89824	-1.27114	-1.41037	-1.74005	-1.04021	-1.14135	-1.37215
10.000	10.000	2.00000	1487.91705	87.01443	654.88243	-1.25110	-1.38636	-1.68724	-1.02695	-1.12630	-1.33650
12.000	12.000	2.00000	1487.93314	87.01538	654.88956	-1.24738	-1.36678	-1.62055	-1.02739	-1.11529	-1.29678
14.000	14.000	2.00000	1487.92639	87.01483	654.88538	-1.25283	-1.35891	-1.58784	-1.03531	-1.11379	-1.27912
16.000	16.000	2.00000	1487.94725	87.01604	654.89454	-1.26233	-1.35334	-1.56784	-1.04660	-1.11270	-1.27057
18.000	18.000	2.00000	1487.92914	87.01502	654.88682	-1.27815	-1.37675	-1.56527	-1.06388	-1.13770	-1.27590
20.000	20.000	2.00000	1487.96275	87.01727	654.90379	-1.30270	-1.40341	-1.57871	-1.08995	-1.16544	-1.29500
22.000	22.000	2.00000	1487.98438	87.01694	654.90131	-1.32657	-1.42136	-1.58333	-1.11510	-1.18707	-1.30792
24.000	24.000	2.00000	1487.98357	87.01867	654.91432	-1.35771	-1.44644	-1.61296	-1.14533	-1.21384	-1.33793
GRADIENT		.00000	.16166	.00976	.07349	.00709	.01532	.02385	.00414	.00957	.01406

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
3.000	.000	2.00000	1999.15904	51.12361	565.47639	-2.54329	-3.00018	-4.03296	-2.10269	-2.42627	-3.10790
2.000	2.000	2.00000	1940.13321	51.14938	565.76151	-2.50173	-2.93236	-3.95294	-2.07573	-2.38313	-3.06362
4.000	4.000	2.00008	1939.45256	51.13434	565.59567	-2.46665	-2.84088	-3.81426	-2.05338	-2.32900	-2.98106
6.000	6.000	2.00009	1939.50688	51.13526	565.60524	-2.45269	-2.79091	-3.64311	-2.04484	-2.28953	-2.87262
8.000	8.000	2.00000	1939.64354	51.14013	565.65813	-2.42959	-2.73843	-3.53193	-2.03085	-2.25667	-2.80434
10.000	10.000	2.00000	1937.17825	51.07750	564.96639	-2.40454	-2.70758	-3.40097	-2.01614	-2.23805	-2.72289
12.000	12.000	2.00000	1938.09195	51.10284	565.24663	-2.38562	-2.65186	-3.25022	-2.00820	-2.20488	-2.62976
14.000	14.000	2.00000	1937.60146	51.08700	565.07146	-2.36988	-2.63351	-3.17970	-2.02397	-2.19805	-2.58856
16.000	16.000	2.00000	1939.26842	51.13221	565.57153	-2.43052	-2.65327	-3.13577	-2.05679	-2.25376	-2.57228
18.000	18.000	2.00000	1938.53479	51.11276	565.35637	-2.46317	-2.68446	-3.11534	-2.08809	-2.25376	-2.56733
20.000	20.000	2.00000	1938.72614	51.12192	565.45771	-2.49672	-2.71834	-3.10978	-2.12377	-2.29097	-2.57774
22.000	22.000	2.00000	1938.94917	51.12888	565.53468	-2.55643	-2.77711	-3.15294	-2.17923	-2.34586	-2.62822
24.000	24.000	2.00000	1938.90468	51.12836	565.52894	-2.63281	-2.85454	-3.21105	-2.24779	-2.41553	-2.67911
GRADIENT		.00000	.07349	.00268	.02967	.01916	.03932	.05468	.01232	.02583	.03171

(EE7C06) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILERON = .000 BOFLAP = -7.170

RMXL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500
 ALPHA
 .000
 2.000
 4.000
 6.000
 8.000
 10.000
 12.000
 14.000
 16.000
 18.000
 20.000
 22.000
 24.000
 GRADIENT

BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT043	DPT023	DPT033
2.00000	2667.88912	34.95021	532.71109	-4.27664	-5.18898	-7.39013	-3.57300	-4.21532	-5.62786
2.00000	2667.98584	34.95149	532.73855	-4.18273	-5.00869	-7.13656	-3.50793	-4.08980	-5.48124
2.00000	2667.56579	34.94680	532.64699	-4.13234	-4.83714	-6.86849	-3.47568	-3.98159	-5.32585
2.00000	2668.66705	34.96039	532.86630	-4.10680	-4.77287	-6.54577	-3.45802	-3.93176	-5.12500
2.00000	2668.83286	34.96268	532.89992	-4.05873	-4.65686	-6.26549	-3.42407	-3.86468	-4.95974
2.00000	2667.49628	34.94455	532.62630	-4.03253	-4.61498	-5.97908	-3.41699	-3.84201	-4.78398
2.00000	2669.68775	34.97392	533.07244	-4.02382	-4.51678	-5.69591	-3.42185	-3.78533	-4.61199
2.00000	2568.85601	34.96312	532.90790	-4.06161	-4.49899	-5.58216	-3.45942	-3.78282	-4.56179
2.00000	2668.65961	34.97344	533.06512	-4.09538	-4.4526.6	-5.48460	-3.49963	-3.82075	-4.49480
2.00000	2668.67300	34.96078	532.87827	-4.17782	-4.60537	-5.42670	-3.57230	-3.89146	-4.48344
2.00000	2670.18805	34.98034	533.17038	-4.28075	-4.70354	-5.48138	-3.65714	-3.98360	-4.54746
2.00000	2668.19308	34.95369	532.78417	-4.38478	-4.81188	-5.56172	-3.78458	-4.08198	-4.62708
2.00000	2670.01163	34.97792	533.13458	-4.50366	-4.96561	-5.71775	-3.86590	-4.21289	-4.76005
.00000	- .08307	- .00105	- .04683	.03607	.08796	.13041	.02433	.05843	.07550

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 OF POOR QUALITY

(EE7C07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A181 (ARC 11-97-87-09*)
ARC 11-97-87-09* 0A181 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RNXL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
5.0000	.000	5.0000	2624.00095	2057.68289	566.31805	.00125	.08178	.00107	.00108	.00153	.00092
5.0000	.000	5.0000	2623.93231	2057.61972	566.31259	.00135	.00052	.00179	.00116	.00049	.00054
5.0000	.000	5.0000	2624.85639	2058.36877	566.48758	.00182	.00058	.00206	.00158	.00190	.00178
5.0000	.000	5.0000	2627.65573	2060.37475	567.28098	.00068	.00058	.00217	.00058	.00050	.00188
5.0000	.000	5.0000	2625.01136	2059.40183	566.60647	.00155	.00142	.00126	.00135	.00162	.00110
5.0000	.000	5.0000	2625.86368	2059.00568	566.85800	.00034	.00073	.00209	.00030	.00241	.00185
5.0000	.000	5.0000	2624.17407	2057.86670	566.30737	.00331	.00240	.00072	.00294	.00213	.00064
5.0000	.000	5.0000	2624.35069	2058.02087	566.33981	.00314	.00190	.00032	.00281	.00170	.00029
5.0000	.000	5.0000	2624.72836	2058.21182	566.51654	.00107	.00061	.00159	.00097	.00007	.00144
5.0000	.000	5.0000	2627.18732	2059.98523	567.26209	.00480	.00236	.00422	.00370	.00218	.00390
5.0000	.000	5.0000	2627.48154	2060.22818	567.25336	.00764	.00685	.00971	.00721	.00571	.00915
5.0000	.000	5.0000	2625.04254	2058.51157	566.53898	.01580	.01214	.02362	.01508	.01159	.02254
5.0000	.000	5.0000	2625.90552	2059.18518	566.77034	.03245	.02379	.04553	.03138	.02302	.04401
5.0000	.000	5.0000	2625.21387	2059.17145	566.70238	.00814	.00010	.00025	.00812	.00008	.00022

RNXL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
5.0000	.000	5.0000	2711.48715	1248.58783	862.97934	.00021	.00054	.00103	.00017	.00044	.00083
5.0000	.000	5.0000	2715.43283	1250.78174	864.65109	.00036	.00138	.00088	.00029	.00044	.00073
5.0000	.000	5.0000	2717.10138	1251.73029	865.37109	.00081	.00031	.00008	.00068	.00026	.00087
5.0000	.000	5.0000	2714.78214	1250.37328	864.41858	.00124	.00040	.00068	.00104	.00034	.00051
5.0000	.000	5.0000	2709.96957	1247.40634	862.56323	.00028	.00154	.00175	.00024	.00140	.00158
5.0000	.000	5.0000	2716.56833	1251.47731	865.09103	.00100	.00071	.00011	.00087	.00052	.00010
5.0000	.000	5.0000	2718.71036	1251.56195	865.14841	.00080	.00056	.00085	.00070	.00059	.00074
5.0000	.000	5.0000	2712.28323	1248.98517	863.37888	.00040	.00138	.00103	.00035	.00124	.00091
5.0000	.000	5.0000	2714.90735	1250.43449	864.47287	.00061	.00038	.00073	.00055	.00008	.00079
5.0000	.000	5.0000	2715.76746	1250.94667	864.82080	.00015	.00034	.00063	.00353	.00008	.00426
5.0000	.000	5.0000	2708.11169	1246.37888	861.73262	.00640	.00435	.00720	.00425	.00077	.00673
5.0000	.000	5.0000	2704.97089	1247.37915	862.59174	.01252	.00819	.01187	.01187	.00777	.01379
5.0000	.000	5.0000	2716.70166	1251.42284	865.27884	.02452	.01740	.02918	.02356	.01672	.02660
5.0000	.000	5.0000	2716.140354	1251.80562	865.59794	.00015	.00021	.00024	.00013	.00018	.00019

GRADIENT

(EE7607) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-084)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RNAL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PF	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.200	.000	5.00000	2011.53359	829.44221	1167.44115	-.01642	-.01702	-.01856	-.01371	-.01427	-.01549
2.000	.000	5.00000	2009.60754	828.83453	1166.59583	-.01616	-.01591	-.01750	-.01386	-.01364	-.01500
4.000	.000	5.00000	2010.79175	829.08212	1166.93431	-.01483	-.01633	-.01724	-.01284	-.01413	-.01492
6.000	.000	5.00000	2013.56270	830.00262	1168.25982	-.01535	-.01538	-.01725	-.01338	-.01366	-.01503
8.000	.000	5.00000	2013.08412	829.84943	1168.01431	-.01544	-.01578	-.01722	-.01345	-.01357	-.01498
10.000	.000	5.00000	2013.08351	829.88634	1168.06627	-.01607	-.01616	-.01722	-.01363	-.01370	-.01460
12.000	.000	5.00000	2013.92958	830.14928	1168.43494	-.01698	-.01690	-.01707	-.01385	-.01379	-.01392
14.000	.000	5.00000	2014.49097	830.35471	1168.72548	-.01973	-.01945	-.01765	-.01610	-.01588	-.01441
16.000	.000	5.00000	2014.72244	830.37983	1168.76085	-.02233	-.02136	-.01941	-.01862	-.01781	-.01619
18.000	.000	5.00000	2016.26015	830.79647	1169.34586	-.02442	-.02263	-.02148	-.02055	-.01960	-.01809
20.000	.000	5.00000	2018.08566	831.44070	1170.25401	-.02778	-.02595	-.02469	-.02357	-.02196	-.02095
22.000	.000	5.00000	2016.50561	830.88952	1168.47824	-.03381	-.03137	-.02916	-.02800	-.02575	-.02573
24.000	.000	5.00000	2018.10297	831.41154	1170.21298	-.04764	-.04215	-.04041	-.04036	-.03573	-.03427
GRADIENT						.00040	.00017	.00033	.00028	.00002	.00014

RNAL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PF	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.400	.000	5.00000	2051.64871	844.49467	1320.72128	-.09758	-.10996	-.10487	-.07610	-.08554	-.08157
2.000	.000	5.00000	2052.59506	844.77777	1321.30142	-.09318	-.10634	-.09888	-.07581	-.08425	-.07906
4.000	.000	5.00000	2045.37286	842.84837	1317.34763	-.09248	-.10295	-.09635	-.07377	-.08152	-.07608
6.000	.000	5.00000	2043.72665	842.43147	1316.49332	-.09855	-.09895	-.09895	-.07255	-.07917	-.08089
8.000	.000	5.00000	2038.74538	841.18606	1313.84118	-.09186	-.10138	-.10230	-.07354	-.08112	-.08185
10.000	.000	5.00000	2037.38092	840.82353	1313.19847	-.09179	-.10109	-.10012	-.07384	-.08130	-.08056
12.000	.000	5.00000	2038.57906	841.10638	1313.77788	-.09358	-.10393	-.09732	-.07482	-.08311	-.07792
14.000	.000	5.00000	2044.59829	842.68628	1317.01324	-.09675	-.10637	-.10307	-.07734	-.08464	-.08259
16.000	.000	5.00000	2042.24944	842.08585	1315.78711	-.10034	-.10770	-.10926	-.08147	-.08734	-.08868
18.000	.000	5.00000	2029.59033	838.78869	1308.01199	-.10728	-.11572	-.11441	-.08774	-.09452	-.09347
20.000	.000	5.00000	2032.02077	838.50005	1310.48613	-.11448	-.12219	-.12787	-.09336	-.09976	-.10000
22.000	.000	5.00000	2035.48625	840.41441	1312.35988	-.12048	-.12638	-.13102	-.09895	-.10426	-.10758
24.000	.000	5.00000	2020.62016	836.51413	1304.36728	-.13194	-.13838	-.14823	-.10937	-.11476	-.12257
GRADIENT						.00127	.00175	.00213	.00058	.00098	.00122

(EETC07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OK161 (ARC 11-97-87-094)
ARC 11-97-87-094 OK161 ORBITER + RAKES

REFERENCE DATA

SREF = 2500.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 985.6900 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.550	.000	5.00000	1551.82259	396.34618	1032.75972	-.19932	-.21206	-.23342	-.15603	-.16562	-.18169
2.000	.000	5.00000	1563.04628	396.65676	1033.56905	-.19262	-.20693	-.23128	-.15162	-.16248	-.18075
4.000	.000	5.00000	1563.16922	396.68547	1033.58172	-.18425	-.20856	-.21889	-.14657	-.15910	-.17309
6.000	.000	5.00000	1563.46520	396.74025	1033.78656	-.18412	-.19684	-.21308	-.14731	-.15723	-.16959
8.000	.000	5.00000	1567.33949	397.71354	1036.32269	-.17756	-.18630	-.20541	-.14278	-.14961	-.16443
10.000	.000	5.00000	1572.23886	398.95424	1038.56558	-.18034	-.18758	-.20557	-.14589	-.15105	-.16752
12.000	.000	5.00000	1578.15364	398.42982	1038.18809	-.18586	-.19685	-.20783	-.15034	-.15895	-.16752
14.000	.000	5.00000	1568.63318	398.03831	1037.18893	-.19623	-.21215	-.23478	-.15921	-.17216	-.18933
16.000	.000	5.00000	1568.80666	397.92425	1036.80173	-.20575	-.22127	-.24395	-.16709	-.17785	-.19795
18.000	.000	5.00000	1568.97487	398.07167	1037.25986	-.20686	-.22321	-.24236	-.16959	-.18093	-.19935
20.000	.000	5.00000	1568.97487	398.12064	1037.38345	-.21288	-.23622	-.25448	-.17616	-.18444	-.20221
22.000	.000	5.00000	1571.11673	398.66989	1038.81490	-.23279	-.25842	-.28308	-.19407	-.19684	-.21921
24.000	.000	5.00000	1571.43858	398.73846	1038.99330	-.25456	-.29427	-.32308	-.21083	-.21391	-.23354
GRADIENT		.00000	.33665	.07983	.20880	.00377	.09287	.08363	.00235	.00163	.00213

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
1.750	.000	5.00000	1655.65865	310.98268	1078.81854	-.38982	-.42339	-.47274	-.38372	-.32871	-.36427
2.000	.000	5.00000	1655.87311	311.02239	1078.95529	-.38721	-.41559	-.46723	-.38338	-.32418	-.36156
4.000	.000	5.00000	1655.81648	311.01186	1079.91904	-.37308	-.40492	-.45143	-.29446	-.31913	-.35330
6.000	.000	5.00000	1655.53950	311.14683	1077.38803	-.36978	-.39319	-.43566	-.29453	-.31210	-.34365
8.000	.000	5.00000	1655.73843	310.99725	1078.86871	-.36345	-.38582	-.43413	-.29105	-.30871	-.34410
10.000	.000	5.00000	1655.74200	310.99868	1078.87334	-.36617	-.38865	-.42542	-.29357	-.31058	-.33816
12.000	.000	5.00000	1654.84193	310.82005	1078.25894	-.36301	-.38915	-.41734	-.29317	-.31305	-.33448
14.000	.000	5.00000	1656.26360	311.09286	1071.19794	-.37003	-.40137	-.45198	-.30014	-.32414	-.36250
16.000	.000	5.00000	1656.03867	311.05466	1071.06638	-.37919	-.40616	-.46194	-.30882	-.32872	-.37105
18.000	.000	5.00000	1655.02122	310.85534	1070.38805	-.37543	-.40415	-.45417	-.30728	-.32947	-.37782
20.000	.000	5.00000	1654.73904	310.79940	1070.18747	-.37996	-.40811	-.46291	-.30728	-.33618	-.37782
22.000	.000	5.00000	1655.71509	310.98660	1070.82997	-.39555	-.42682	-.48226	-.32849	-.35249	-.39634
24.000	.000	5.00000	1655.66173	311.16761	1071.45531	-.42213	-.45351	-.50697	-.35093	-.37562	-.41726
GRADIENT		.00000	.03946	.00738	.02512	.00388	.00459	.00533	.00207	.00239	.00274

(EE7C07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - ON161 (ARC 11-97-87-0.4)

ARC 11-97-87-094 ON161 ORBITER + RAKES

REFERENCE DATA

SREF = 2698.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = 0800 IN. YO
BREF = 955.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

RNAL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
2.000	.000	5.00000	1834.93884	234.25348	1087.03931	-708740	-78302	-89275	-58463	-61902	-69803
2.000	.000	5.00000	1830.93913	233.75630	1084.73218	-69212	-76054	-87407	-55373	-60359	-68458
4.000	.000	5.00000	1831.46227	233.83033	1085.07568	-68274	-73847	-85161	-55021	-59133	-67319
6.000	.000	5.00000	1831.73577	233.86808	1085.25089	-66187	-72435	-83682	-53761	-58423	-66640
8.000	.000	5.00000	1834.07381	234.17492	1086.67477	-65068	-70766	-81223	-53092	-57394	-65100
10.000	.000	5.00000	1836.11595	234.42052	1087.61444	-65392	-70348	-79842	-53096	-57367	-64428
12.000	.000	5.00000	1836.10439	234.41893	1087.60734	-63751	-70801	-77925	-52563	-57321	-63275
14.000	.000	5.00000	1841.38962	235.10691	1090.99960	-63870	-69378	-79250	-52933	-57169	-64641
16.000	.000	5.00000	1849.86311	236.19734	1096.05969	-64354	-69678	-81710	-53322	-57415	-66500
18.000	.000	5.00000	1849.98158	236.21837	1096.15729	-66587	-70542	-82488	-54572	-58478	-67478
20.000	.000	5.00000	1845.65546	235.66004	1093.56639	-66289	-71092	-81705	-55675	-59434	-67619
22.000	.000	5.00000	1847.52986	236.89368	1094.65019	-67522	-72593	-83027	-58883	-60864	-68940
24.000	.000	5.00000	1848.52892	236.04575	1095.35625	-70142	-75981	-86013	-58033	-63601	-71336
GRADIENT		.00000	-86814	-10578	-49081	.08649	.01136	.01028	.00360	.00692	.00571

RNAL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
2.250	.000	5.00000	2058.36877	178.11419	1069.00958	-105235	-12014	-142047	-85426	-96192	-111543
2.000	.000	5.00000	2058.48529	178.03863	1068.55612	-102588	-116478	-138736	-83829	-94001	-109786
4.000	.000	5.00000	2058.33249	178.11115	1068.98139	-100660	-113828	-136902	-82606	-92326	-108122
6.000	.000	5.00000	2059.45581	178.12163	1069.05426	-100130	-111543	-133168	-82330	-90830	-106373
8.000	.000	5.00000	2058.44626	178.03483	1068.53333	-98197	-109322	-129189	-81121	-89446	-103699
10.000	.000	5.00000	2059.21468	178.10055	1068.93778	-96630	-106421	-123644	-80081	-87487	-100113
12.000	.000	5.00000	2058.72852	178.05887	1068.67758	-95806	-105119	-121889	-79524	-86586	-98390
14.000	.000	5.00000	2058.33539	178.02506	1068.47466	-95452	-105722	-121586	-79244	-86594	-98390
16.000	.000	5.00000	2059.73508	178.14466	1069.19247	-96599	-105912	-125939	-80551	-87710	-102524
18.000	.000	5.00000	2058.78250	178.06276	1068.70993	-96357	-106528	-126549	-82237	-88479	-103400
20.000	.000	5.00000	2058.63272	178.13587	1069.13972	-98357	-106528	-126549	-84642	-91061	-104826
22.000	.000	5.00000	2058.95165	178.07758	1068.78992	-101861	-110361	-128993	-86144	-93010	-107174
24.000	.000	5.00000	2058.71259	178.05685	1068.66547	-102889	-111891	-130880	-86144	-93010	-107174
GRADIENT		.00000	-80907	-10076	-40458	.01144	.0152	.01536	.00705	.00967	.00855

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TABULATED DATA - 0A161 (ARC 11-97-87-084)
ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7607) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.8800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RNKL = 2.00 GRADIENT INTERVAL = -5.00/ 5.08

MACH	ALPHA	BETA	PT	P	COMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
2.500	.080	5.00000	1487.41808	86.98371	654.65117	-1.54923	-1.77133	-2.18128	-1.26060	-1.41831	-1.68333
2.000	.000	5.00000	1487.53204	86.98042	654.70170	-1.51474	-1.73079	-2.10985	-1.23742	-1.39202	-1.65201
4.000	.000	5.00000	1487.58736	86.99367	654.72614	-1.49610	-1.69102	-2.05763	-1.23616	-1.36556	-1.62960
6.000	.000	5.00000	1487.58563	86.99354	654.72516	-1.46881	-1.65241	-2.01266	-1.21007	-1.34424	-1.59585
8.000	.000	5.00000	1487.60661	86.99529	654.73832	-1.44772	-1.61387	-1.95431	-1.19917	-1.32139	-1.56323
10.000	.000	5.00000	1487.63736	86.99718	654.75346	-1.42661	-1.57405	-1.87708	-1.18424	-1.29328	-1.51054
12.000	.000	5.00000	1487.63515	86.99730	654.75260	-1.41969	-1.56402	-1.84005	-1.18260	-1.28929	-1.48868
14.000	.000	5.00000	1487.63156	86.99771	654.75657	-1.41260	-1.54951	-1.80948	-1.17243	-1.28236	-1.47164
16.000	.000	5.00000	1487.63156	86.99771	654.75657	-1.41260	-1.54951	-1.80948	-1.17243	-1.28236	-1.47164
18.000	.000	5.00000	1487.64584	86.99899	654.76619	-1.44796	-1.55843	-1.89367	-1.21425	-1.29744	-1.47159
20.000	.000	5.00000	1487.60817	86.99542	654.74684	-1.47818	-1.59321	-1.81461	-1.24326	-1.33019	-1.49398
22.000	.000	5.00000	1487.61295	86.99681	654.74929	-1.51726	-1.62814	-1.85042	-1.27828	-1.35411	-1.52846
24.000	.000	5.00000	1487.57964	86.99521	654.73773	-1.57858	-1.68630	-1.88686	-1.32890	-1.41025	-1.55692
GRADIENT			.04233	.00249	.01874	.01328	.06208	.02591	.08861	.01291	.01568

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.08

MACH	ALPHA	BETA	PT	P	COMP	DPT011	DPT021	DPT031	DPT013	DPT023	DPT033
3.000	.000	5.00000	1939.46461	51.12282	565.46576	-3.06733	-3.62533	-4.62446	-2.54646	-2.94119	-3.60482
2.000	.000	5.00000	1937.72949	51.07815	564.97363	-3.09666	-3.53766	-4.53798	-2.50222	-2.88381	-3.58442
4.000	.000	5.00000	1938.05091	51.08625	565.06321	-2.91775	-3.42477	-4.38215	-2.44192	-2.80701	-3.46135
6.000	.000	5.00000	1938.52211	51.09901	565.20436	-2.88190	-3.39373	-4.28968	-2.41948	-2.75463	-3.40333
8.000	.000	5.00000	1938.14912	51.09524	565.16261	-2.83778	-3.25223	-4.11557	-2.39153	-2.68862	-3.29586
10.000	.000	5.00000	1938.11229	51.09643	565.17573	-2.80355	-3.18144	-3.97952	-2.36911	-2.64759	-3.20898
12.000	.000	5.00000	1937.93176	51.09222	565.12921	-2.77847	-3.11815	-3.83870	-2.34466	-2.61717	-3.11998
14.000	.000	5.00000	1938.21223	51.10291	565.24744	-2.76109	-3.07735	-3.76467	-2.34119	-2.58347	-3.07724
16.000	.000	5.00000	1938.80711	51.12403	565.48142	-2.78186	-3.06874	-3.71278	-2.37013	-2.58561	-3.05207
18.000	.000	5.00000	1938.64461	51.12433	565.48442	-2.84039	-3.09413	-3.71076	-2.42098	-2.61177	-3.08951
20.000	.000	5.00000	1938.51358	51.11730	565.40564	-2.89289	-3.14842	-3.70965	-2.47284	-2.65965	-3.07725
22.000	.000	5.00000	1938.80377	51.12642	565.50747	-2.97771	-3.22843	-3.74900	-2.54992	-2.73528	-3.11771
24.000	.000	5.00000	1938.09142	51.11131	565.34034	-3.08609	-3.35398	-3.82400	-2.63286	-2.83412	-3.17812
GRADIENT			-.35345	-.00914	-.10112	.03740	.05044	.05883	.02614	.03355	.03587

(EE7C02) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1876.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0800 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0080 IN. Z0
SCALE = .0300

RNVL = 1.98 GRADIENT INTERVAL = -5.004 5 00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT041	DPT02F	DPT031	DPT043	DPT023	DPT033
3.500	.000	5.00000	2683.02945	35.14786	535.72263	-5.29246	-6.45082	-8.55306	-4.40628	-5.21810	-6.56242
	2.000	5.00000	2682.78683	35.14482	535.67736	-5.14385	-6.25266	-8.35864	-4.30363	-5.08152	-6.44268
	4.000	5.00000	2680.96332	35.12155	535.32265	-5.00869	-6.07736	-8.06709	-4.21211	-4.97024	-6.27606
	6.000	5.00000	2680.66058	35.14306	535.66033	-4.93463	-5.86676	-7.85686	-4.16391	-4.83173	-6.15604
	8.000	5.00000	2680.66055	35.11761	535.26256	-4.84764	-5.62143	-7.47786	-4.10040	-4.63991	-5.91494
	10.000	5.00000	2682.31402	35.13848	535.58065	-4.79432	-5.53498	-7.20642	-4.06873	-4.60786	-5.75330
	12.000	5.00000	2680.79922	35.11946	535.29082	-4.76894	-5.42946	-6.92620	-4.06166	-4.54781	-5.59834
	14.000	5.00000	2681.94268	35.13391	535.51109	-4.75142	-5.36479	-6.76654	-4.05856	-4.54246	-5.49886
	16.000	5.00000	2680.82974	35.11878	535.28048	-4.78587	-5.32517	-6.68884	-4.05936	-4.49653	-5.46886
	18.000	5.00000	2680.17957	35.11156	535.17036	-4.89790	-5.36904	-6.67878	-4.18862	-4.55489	-5.47395
	20.000	5.00008	2682.18320	35.13710	535.55972	-5.00375	-5.49677	-6.66864	-4.28852	-4.65060	-5.48865
	22.000	5.00000	2680.68205	35.11565	535.23274	-5.15349	-5.68931	-6.74760	-4.41150	-4.80987	-5.56840
	24.000	5.00006	2680.41901	35.11479	535.21957	-5.34023	-5.91009	-6.98657	-4.55822	-4.99144	-5.70614
	GRADIENT	.00000	-5.51654	-0.08656	-1.00005	.07094	.09337	.12149	.04854	.05996	.06909

(EE70031 (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = -0.000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.004 5.00

MACH = 1.200	BETA	PT	P	QCOMP	DP001	DP002	DP031	DP013	DP023	DP033
ALPHA	-5.00000	2008.91339	828.82202	1166.58822	76526	76550	76866	25071	25077	25127
0.000	-5.00000	2009.58676	828.57557	1166.22134	75936	76082	76230	26302	26318	26373
2.000	-5.00000	2012.38209	828.41618	1167.48450	74356	74398	74634	27565	27576	27639
4.000	-5.00000	2017.38050	828.01813	1165.43674	74282	74332	74467	28758	28773	28811
6.000	-5.00000	2007.38050	827.76498	1165.08044	73400	73434	73657	27848	27849	27920
8.000	-5.00000	2005.18105	826.38300	1163.13528	72507	72545	72774	27154	27165	27228
10.000	-5.00000	1999.63934	826.64798	1163.65021	69820	69844	70001	25632	25630	25681
12.000	-5.00000	2001.46516	826.64798	1163.50826	67734	67768	67940	23357	23357	23418
14.000	-5.00000	2001.00822	826.30900	1163.03114	64921	64970	65118	21296	21305	21340
16.000	-5.00000	1999.43224	827.20448	1164.29153	59929	59984	60036	19566	19560	19593
18.000	-5.00000	2000.10529	826.62385	1163.47430	56327	56380	56525	18254	18241	18289
20.000	-5.00000	2000.66002	825.65847	1162.11552	53105	53105	53314	16713	16713	16763
22.000	-5.00000	1996.12405	825.41649	1161.77493	48184	47977	48363	15120	15070	15164
24.000	-5.00000	1995.54181	825.14854	1161.28908	-0.08567	-0.08567	-0.08567	00623	00625	00628
GRADIENT	.00000	.86957	.14854	.28908						

MACH = 1.200	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
ALPHA	-5.00000	1578.31139	400.01885	1042.32884	53631	54359	55858	12704	12831	13085
0.000	-5.00000	1578.59117	400.18729	1042.76854	53769	54628	56594	13194	13348	13520
2.000	-5.00000	1577.2025	399.78389	1041.71767	53526	54385	56254	13658	13820	13982
4.000	-5.00000	1577.34309	399.78176	1041.73790	52628	53339	54395	14127	14270	14479
6.000	-5.00000	1578.35884	400.03287	1042.36615	51765	52387	53668	14096	14206	14480
8.000	-5.00000	1575.77289	399.39394	1040.70128	50723	51265	52461	14157	14271	14521
10.000	-5.00000	1575.64384	399.36881	1040.63841	48285	49058	50058	13977	14069	14282
12.000	-5.00000	1575.97449	399.44687	1040.83922	47054	47398	48658	13688	13795	13983
14.000	-5.00000	1575.97449	399.45256	1040.85405	45150	45430	46528	13240	13314	13500
16.000	-5.00000	1576.27609	399.52647	1041.04663	43764	44051	45116	12888	12942	13094
18.000	-5.00000	1575.81870	399.41241	1040.74942	43483	43764	44451	12688	12734	12883
20.000	-5.00000	1575.80844	399.41526	1040.75685	41796	42334	42551	12030	12083	12114
22.000	-5.00000	1575.80844	399.57412	1041.17079	40014	40276	40478	12943	13011	13064
24.000	-5.00000	1576.42549	399.57412	1041.17079	-0.00026	-0.00026	-0.00026	00230	00247	00254
GRADIENT	.00800	-.24779	-.05863	-.15279						

TABULATED DATA - 04161 (ARC 11-97-87-894)
ARC 11-97-87-894 04161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1078.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = .000 BDELAP = -7.378

PARAMETRIC DATA

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	1.750	ALPHA	BETA	PT	P	QCOMP	DPO11	DPO21	DPO31	DPO13	DPO23	DPO33
			-5.00000	1843.42418	299.79275	1056.72121	.59936	.57184	.60167	.14107	.14336	.14872
			-5.00000	1850.93587	310.08348	1057.72229	.58473	.56999	.60228	.14303	.14591	.15185
			-5.00000	1850.24094	309.94633	1057.25003	.58095	.56538	.59559	.14747	.15031	.15615
			-5.00000	1843.94432	309.89394	1057.06963	.54371	.52464	.58191	.15121	.15346	.15899
			-5.00000	1850.82384	310.06269	1057.65071	.53374	.51174	.56471	.14782	.14947	.15415
			-5.00000	1850.44762	309.98747	1057.39773	.52997	.50976	.55006	.14673	.14816	.15259
			-5.00000	1861.41377	310.17471	1058.03642	.51136	.48757	.53502	.14788	.14919	.15302
			-5.00000	1851.02856	310.09578	1057.75807	.50017	.47334	.52127	.14699	.14841	.15169
			-5.00000	1850.14075	309.92978	1057.19304	.48864	.46057	.50734	.14708	.14841	.15138
			-5.00000	1850.84294	310.06318	1057.65240	.47462	.44804	.49104	.14844	.14988	.15241
			-5.00000	1851.38724	310.15493	1058.00276	.45684	.42684	.47270	.15141	.15292	.15575
			-5.00000	1851.57825	310.20011	1058.12389	.44157	.40718	.46013	.14834	.14984	.15327
			-5.00000	1851.58163	310.20077	1058.12617	.42949	.39225	.44925	.15219	.15383	.15778
			.00000	.20419	.03840	.13221	-.00210	-.00164	-.00149	.00160	.00174	.00186

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	2.000	ALPHA	BETA	PT	P	QCOMP	DPO11	DPO21	DPO31	DPO13	DPO23	DPO33
			-5.00000	1847.06216	235.97866	1095.04305	.48775	.50494	.54749	.12287	.12611	.13389
			-5.00000	1848.06623	236.10478	1095.63014	.47891	.49446	.54480	.12573	.12922	.13692
			-5.00000	1847.42177	236.02850	1095.27618	.47818	.49424	.54412	.12713	.13036	.13808
			-5.00000	1848.95721	236.96282	1094.97044	.47450	.48880	.54976	.12838	.13074	.13754
			-5.00000	1848.99805	236.96757	1094.99344	.46814	.47907	.50958	.12778	.13066	.13605
			-5.00000	1848.48546	235.89915	1094.67596	.46570	.47691	.50938	.12923	.13140	.13670
			-5.00000	1848.51515	236.90250	1094.69148	.45058	.46561	.48126	.13077	.13281	.13761
			-5.00000	1848.62762	235.91658	1094.75682	.44239	.45824	.46814	.13479	.13721	.14104
			-5.00000	1848.02921	235.83774	1094.39098	.43250	.44338	.44885	.13345	.13541	.13918
			-5.00000	1848.35066	235.87904	1094.58261	.42316	.43116	.43398	.13121	.13320	.13629
			-5.00000	1848.86618	236.94551	1094.89108	.41497	.42321	.42596	.13318	.13529	.13853
			-5.00000	1847.20576	235.98882	1095.09203	.39934	.40823	.42198	.13961	.14207	.14598
			-5.00000	1848.00110	235.83439	1094.37541	.37051	.37874	.38567	.13928	.14171	.14608
			.00000	.08890	.01256	.05828	-.00239	-.00267	-.00084	.00107	.00106	.00155

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 938.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP023	DP033
2.250	.000	-5.00000	2054.52133	177.43511	1064.93397	411478	43400	10081	10441	11415
2.000	.000	-5.00000	2050.73444	177.36766	1064.52908	414229	43302	10031	10381	11408
4.000	.000	-5.00000	2050.90634	177.38244	1064.61781	41530	43269	10331	10553	11634
6.000	.000	-5.00000	2050.73029	177.36738	1064.52737	41316	42317	10689	10952	11778
8.000	.000	-5.00000	2051.17938	177.40587	1064.75842	39921	41084	10739	11001	11686
10.000	.000	-5.00000	2051.78479	177.45775	1065.06881	38447	40216	10926	11161	11838
12.000	.000	-5.00000	2052.43539	177.51383	1065.40537	38228	39464	11028	11312	11867
14.000	.000	-5.00000	2054.13220	177.65454	1066.25092	38667	39464	11150	11398	11869
16.000	.000	-5.00000	2055.24664	177.75452	1066.85034	38868	39749	11244	11546	12022
18.000	.000	-5.00000	2055.90338	177.81194	1067.19537	38868	38033	11325	11694	12127
20.000	.000	-5.00000	2055.49188	177.77673	1066.98186	35202	36722	11275	11572	11957
22.000	.000	-5.00000	2055.36655	177.76571	1066.91809	35202	36401	11818	12149	12529
24.000	.000	-5.00000	2056.58186	177.86968	1067.54214	31079	32083	09659	09949	10403
GRADIENT		.00000	-1.15373	-0.01317	-0.07902	00028	-0.0033	00052	00033	00050

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP023	DP033
2.500	.000	-5.00000	1498.56390	87.64465	659.62592	40159	41621	10818	11127	12388
2.000	.000	-5.00000	1497.87276	87.60338	658.31491	40336	41578	10841	11124	12366
4.000	.000	-5.00000	1497.09436	87.55775	658.97150	39945	41177	11135	11407	12561
6.000	.000	-5.00000	1497.75047	87.59612	659.26824	39796	40826	11079	11285	12316
8.000	.000	-5.00000	1497.84230	87.60144	659.30032	39301	40368	11313	11543	12491
10.000	.000	-5.00000	1497.81511	87.59991	659.28880	38789	38941	11403	11654	12567
12.000	.000	-5.00000	1497.81754	87.59988	659.28856	38831	40122	12033	12355	13129
14.000	.000	-5.00000	1497.78598	87.59764	659.27169	37859	39211	12004	12358	13017
16.000	.000	-5.00000	1497.77367	87.59656	659.26360	37190	38554	12024	12408	13031
18.000	.000	-5.00000	1497.77548	87.59658	659.26370	36391	37873	12131	12535	13129
20.000	.000	-5.00000	1497.79367	87.59782	659.27309	35501	37063	11908	12385	12914
22.000	.000	-5.00000	1497.81293	87.59903	659.28218	34544	35982	11948	12359	12944
24.000	.000	-5.00000	1497.82393	87.59926	659.28388	33727	35043	12299	12694	13284
GRADIENT		.00000	-0.2172	-0.02172	-0.16350	-0.0054	-0.011	00079	00070	00041

(EE7003) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. X0
LREF = 474.8800 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

BETA =
ALFON =
ELEVON =
BDFLAP =

PARAMETRIC DATA

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP011	DP021	DP031	DP013	DP023	DP033
3.000	.000	-5.00000	1935.56339	51.10074	565.22348	.35326	.36582	.45152	.09793	.10100	.11896
	2.000	-5.00000	1935.15036	51.09178	565.12438	.35003	.36274	.44008	.09743	.10029	.11587
	4.000	-5.00000	1936.07675	51.11307	565.35988	.34801	.35977	.42782	.09815	.10084	.11558
	6.000	-5.00000	1936.50783	51.12482	565.48977	.34601	.35747	.41742	.09704	.09965	.11276
	8.000	-5.00000	1936.47981	51.12357	565.47600	.34260	.35465	.40801	.09801	.10086	.11206
	10.000	-5.00000	1936.30977	51.12127	565.45056	.33730	.35175	.39809	.10355	.10407	.11500
	12.000	-5.00000	1936.00462	51.11145	565.34191	.33234	.34966	.39017	.10168	.10503	.11590
	14.000	-5.00000	1935.75789	51.09733	565.18574	.32825	.34741	.38247	.10367	.10854	.11740
	16.000	-5.00000	1935.34929	51.08156	565.01133	.32238	.34313	.37542	.10409	.10963	.11801
	18.000	-5.00000	1935.29300	51.07934	564.98677	.31376	.33945	.36597	.10311	.10803	.11740
	20.000	-5.00000	1934.35158	51.05967	564.76923	.30808	.32945	.36101	.10253	.11135	.12013
	22.000	-5.00000	1934.81860	51.07553	564.94459	.30038	.32064	.35224	.10567	.11156	.12057
	24.000	-5.00000	1934.05580	51.04761	564.63582	.29463	.31342	.34304	.10568	.11139	.12017
GRADIENT		.00000	.12834	.00308	.03410	-.00131	-.00179	-.00512	.00005	-.00004	-.00064

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP011	DP021	DP031	DP013	DP023	DP033
3.500	.000	-5.00000	2547.37308	33.36888	508.6084C	.34091	.35756	.46552	.09417	.09789	.12058
	2.000	-5.00000	2547.81790	33.37489	508.7000C	.33621	.35236	.44987	.09413	.09780	.11868
	4.000	-5.00000	2546.94196	33.36394	508.53317	.33242	.34852	.43233	.09364	.09733	.11556
	6.000	-5.00000	2547.53006	33.37128	508.64510	.33206	.34923	.42286	.09582	.09986	.11638
	8.000	-5.00000	2547.17203	33.36708	508.58098	.32746	.34607	.40922	.09488	.09928	.11350
	10.000	-5.00000	2551.36157	33.42099	508.40276	.32306	.34505	.40345	.09629	.10165	.11534
	12.000	-5.00000	2555.54724	33.47640	510.24735	.31833	.34197	.39169	.09546	.10234	.11426
	14.000	-5.00000	2558.82321	33.51909	510.88791	.31208	.33825	.38104	.09854	.10536	.11614
	16.000	-5.00000	2563.66443	33.58292	511.87092	.30633	.33441	.37654	.09954	.10711	.11809
	18.000	-5.00000	2572.38071	33.63452	512.67409	.30058	.32915	.37154	.10020	.10813	.11950
	20.000	-5.00000	2578.11011	33.69739	513.61562	.29922	.31683	.36905	.09859	.10613	.11782
	22.000	-5.00000	2578.11011	33.77192	514.75153	.28739	.31311	.35463	.09753	.10203	.12180
	24.000	-5.00000	2578.93777	33.79332	514.92529	.27965	.30356	.34299	.09913	.10533	.11782
GRADIENT		.00000	-.10779	-.00123	-.01880	-.00212	-.00266	-.00854	-.00013	-.00014	-.00128

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TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA16: ORBITER + RAKES

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 3.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPQ11	DPQ21	DPQ31	CPQ13	DPQ23	DPQ33
1.550	.000	-2.00000	1574.43616	398.83030	1039.23260	.45037	.46407	.47320	.09105	.09190	.09353
2.000	.000	-2.00000	1573.92516	398.70513	1038.98645	.46062	.46894	.47569	.09711	.09842	.09950
4.000	.000	-2.00000	1573.05887	398.48754	1038.33949	.45593	.46356	.47032	.10157	.10265	.10396
6.000	.000	-2.00000	1573.57761	398.62070	1038.68646	.44630	.45269	.46021	.10359	.10482	.10614
8.000	.000	-2.00000	1574.31830	398.81203	1039.18500	.43214	.43690	.44713	.10269	.10375	.10561
10.000	.000	-2.00000	1574.64066	398.88485	1039.37476	.42301	.42719	.43525	.10237	.10315	.10483
12.000	.000	-2.00000	1574.84332	398.93706	1039.51079	.41367	.41703	.42489	.09559	.09653	.09809
14.000	.000	-2.00000	1574.59084	398.87534	1039.34998	.40157	.40463	.41103	.09664	.09721	.09841
16.000	.000	-2.00000	1575.31898	399.06065	1039.83284	.38840	.39056	.39555	.09162	.09202	.09313
18.000	.000	-2.00000	1575.34929	399.06559	1039.84596	.37186	.37443	.38027	.08997	.09047	.09157
20.000	.000	-2.00000	1574.16409	398.76549	1039.06374	.35647	.35952	.36469	.09537	.09587	.09674
22.000	.000	-2.00000	1574.15891	398.76766	1039.06938	.34720	.35005	.35378	.09287	.09327	.09464
24.000	.000	-2.00000	1574.84804	398.94400	1039.52890	.33241	.33502	.33847	.08538	.08592	.08664
GRADIENT		.00000	-.34433	-.08569	-.22328	-.00061	-.00013	-.00125	.00263	.00274	.00261

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPQ11	DPQ21	DPQ31	CPQ13	DPQ23	DPQ33
1.750	.000	-2.00000	1650.91153	210.07685	1067.69946	.47224	.48366	.50880	.10769	.10964	.11385
2.000	.000	-2.00000	1652.84775	210.44413	1068.96416	.46419	.47864	.50529	.10975	.11232	.11713
4.000	.000	-2.00000	1653.85585	210.63168	1069.60992	.46554	.47796	.50603	.11074	.11295	.11787
6.000	.000	-2.00000	1654.30829	210.72412	1069.92824	.46159	.47001	.49286	.11282	.11438	.11855
8.000	.000	-2.00000	1653.79941	210.62094	1069.57295	.45068	.45885	.47833	.11302	.11458	.11826
10.000	.000	-2.00000	1654.31114	210.72391	1069.92749	.43830	.44495	.46120	.11146	.11275	.11592
12.000	.000	-2.00000	1655.30827	210.90964	1070.56705	.42524	.43117	.44409	.11125	.11245	.11505
14.000	.000	-2.00000	1655.65390	210.97398	1070.78859	.41516	.42005	.43187	.10900	.11001	.11241
16.000	.000	-2.00000	1654.93356	210.83946	1070.32539	.40555	.41024	.41949	.10654	.10751	.10940
18.000	.000	-2.00000	1655.58514	210.95767	1070.76688	.39352	.39830	.40760	.10736	.10839	.11039
20.000	.000	-2.00000	1657.05319	211.24283	1071.71434	.38444	.38410	.39514	.10862	.10993	.11244
22.000	.000	-2.00000	1657.68335	211.35872	1072.11337	.36218	.36769	.37975	.10769	.10901	.11190
24.000	.000	-2.00000	1657.51363	211.32766	1072.00642	.34857	.35305	.36529	.10244	.10352	.10642
GRADIENT		.00000	.73608	.13871	.47761	-.00165	-.00142	-.00069	.00076	.00083	.00101

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8800 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0080 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.870

RM/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
2.000	.000	-2.00000	1846.93443	235.90358	1094.69649	.42914	.44726	.48462	.08912	.09196	.09784
2.000	2.000	-2.00000	1846.41615	235.83478	1094.37723	.42582	.44256	.48366	.09169	.09443	.10094
4.000	4.000	-2.00000	1846.47842	235.84348	1094.41763	.42044	.43543	.47572	.09378	.09626	.10291
6.000	6.000	-2.00000	1847.01898	235.91540	1094.75133	.41060	.42485	.46628	.09542	.09797	.10347
8.000	8.000	-2.00000	1846.99858	235.94268	1094.73875	.40367	.41733	.44205	.09473	.09723	.10163
10.000	10.000	-2.00000	1846.95899	235.91120	1094.73189	.39738	.40858	.42998	.09417	.09623	.10010
12.000	12.000	-2.00000	1846.94936	235.86371	1094.53854	.38205	.40161	.42105	.09417	.09647	.10217
14.000	14.000	-2.00000	1846.59160	235.85966	1094.49659	.37852	.38759	.40335	.09784	.09970	.10289
16.000	16.000	-2.00000	1847.17949	235.94132	1094.87184	.36135	.36950	.38234	.09787	.09964	.10240
18.000	18.000	-2.00000	1846.84877	235.89649	1094.66362	.35418	.36418	.37545	.09752	.09917	.10163
20.000	20.000	-2.00000	1846.81461	236.88847	1094.62637	.34234	.35021	.35911	.09544	.09723	.10070
22.000	22.000	-2.00000	1847.35041	235.95847	1094.95123	.33318	.34164	.35911	.09286	.09479	.09870
24.000	24.000	-2.00000	1846.02896	235.78710	1094.15599	.31445	.32179	.33948	.09032	.09206	.09621
GRADIENT						.00217	.00295	.00222	.00114	.00407	.00132

RM/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
2.250	.000	-2.00000	2060.32037	178.19294	1069.48225	.33264	.35187	.39697	.06470	.06786	.07433
4.000	4.000	-2.00000	2059.98480	178.18426	1069.31013	.32866	.34663	.38848	.06885	.06976	.07628
6.000	6.000	-2.00000	2059.56003	178.12785	1069.09164	.32701	.34353	.38291	.06707	.06977	.07599
8.000	8.000	-2.00000	2060.01712	178.16682	1069.32610	.32619	.34253	.37684	.06855	.07129	.07687
10.000	10.000	-2.00000	2060.34888	178.19534	1069.49667	.32165	.33653	.36742	.06951	.07210	.07730
12.000	12.000	-2.00000	2060.24548	178.18648	1069.44347	.31696	.33053	.35857	.07043	.07287	.07776
14.000	14.000	-2.00000	2060.24561	178.18653	1069.44377	.31338	.32490	.34823	.07179	.07393	.07817
16.000	16.000	-2.00000	2060.56393	178.20613	1069.56143	.31233	.32313	.34297	.07398	.07687	.07982
18.000	18.000	-2.00000	2060.05616	178.21377	1069.68732	.30506	.31509	.33240	.07435	.07636	.07975
20.000	20.000	-2.00000	2060.44946	178.16844	1069.33524	.29679	.30613	.32132	.07386	.07577	.07884
22.000	22.000	-2.00000	2060.15353	178.20315	1069.54353	.29504	.30424	.32134	.07783	.07984	.08352
24.000	24.000	-2.00000	2060.04486	178.17854	1069.39588	.27907	.28714	.29779	.06311	.06485	.06843
GRADIENT						.33869	.34243	.36865	.12624	.00053	.00042

(FE700N) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2690.0008 SQ.FT. XMRP = 1076.6880 IN. X0
LREF = 474.8880 IN. YMRP = .0000 IN. Y0
BREF = 938.6880 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0380

PARAMETRIC DATA

BETA = -2.090 ELEVON = .000
AILRON = .000 EDFLAP = -7.170

RNVL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
	0.000	-2.00000	1497.77222	87.59769	659.27209	36163	38522	45270	08189	08607	09746
	2.000	-2.00000	1497.78450	87.59732	659.26928	36084	38354	44772	08432	08649	09745
	4.000	-2.00000	1497.76714	87.59741	659.27001	35699	37825	43624	08481	08880	09922
	6.000	-2.00000	1497.74226	87.59619	659.26081	35268	37158	42793	08558	09027	09973
	8.000	-2.00000	1497.75372	87.59682	659.26557	34876	36591	41178	08633	08947	09847
	10.000	-2.00000	1497.67010	87.59167	659.26576	34375	35972	40178	08964	09298	10152
	12.000	-2.00000	1498.01534	87.61195	659.37941	34272	35696	39146	08968	09257	09965
	14.000	-2.00000	1494.68498	87.41497	657.89693	33776	35130	37984	09082	09377	09984
	16.000	-2.00000	1494.60895	87.41100	657.86705	33281	34556	37082	09234	09582	10146
	18.000	-2.00000	1495.08078	87.43912	658.07867	32445	34012	36012	09243	09634	10065
	20.000	-2.00000	1494.25999	87.38984	657.70778	31582	32410	34956	09165	09459	09963
	22.000	-2.00000	1494.70457	87.41660	657.98915	31036	32241	34189	08998	09287	09746
	24.000	-2.00000	1494.94550	87.43000	658.01747	29911	31000	32963	09012	09285	09771
GRADIENT		.00000	-.00127	-.0007	-.08052	-.08117	-.08174	-.00411	.00073	.08063	.00044

RNVL = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
	0.000	-2.00000	1942.79845	51.29698	567.38300	30859	33648	42758	07349	07686	09526
	2.000	-2.00000	1939.95528	51.22303	566.57606	30488	33107	41464	07327	07637	09366
	4.000	-2.00000	1937.25540	51.15163	566.78629	30625	33127	40973	07670	08179	09687
	6.000	-2.00000	1932.01018	51.02706	564.33104	30233	32477	38846	07540	07996	09229
	8.000	-2.00000	1931.75623	51.01216	564.24371	30255	32289	38307	07874	08307	09533
	10.000	-2.00000	1932.19610	51.02143	564.34621	29836	31686	37116	07865	08253	09391
	12.000	-2.00000	1932.51784	51.02796	564.41837	29385	31453	36122	08173	08522	09540
	14.000	-2.00000	1931.30788	50.98654	563.96030	29468	31032	34802	08122	08478	09814
	16.000	-2.00000	1932.10713	51.00635	564.17945	28797	30388	33679	08034	08403	09846
	18.000	-2.00000	1931.43526	50.99056	564.08479	28797	30388	33679	08154	08552	09817
	20.000	-2.00000	1931.86768	50.99784	564.08523	27633	29282	32240	08014	08415	09217
	22.000	-2.00000	1932.01346	51.00587	564.17412	27304	28949	31715	08128	08541	09254
	24.000	-2.00000	1931.72012	50.99929	564.10132	26918	28496	31083	08197	08682	09254
GRADIENT		.00000	-.138574	-.03609	-.38918	-.00056	-.00128	-.00446	.00080	.08073	.00040

TABULATED DATA - 0A161 (ARC 11-97-87-09*)
ARC 11-97-87-09* 0A161 ORBITER + RAKES

(EETD004) (02 AUG 78)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RNWL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ43	DPQ23	DPQ33
3.500	.000	-2.00000	2608.07135	34.16512	520.74471	.28447	.31744	.43393	.06997	.07660	.09812
	2.000	-2.00000	2609.47937	34.18432	521.03742	.28327	.31285	.42206	.06972	.07569	.09605
	4.000	-2.00000	2610.52889	34.19799	521.24570	.28378	.31081	.40730	.07196	.07743	.09636
	6.000	-2.00000	2611.11072	34.24500	521.96236	.28124	.30521	.38363	.07138	.07640	.09189
	8.000	-2.00000	2614.27728	34.24722	521.99606	.28027	.30109	.37582	.07256	.07702	.09204
	10.000	-2.00000	2619.19357	34.31230	522.98805	.27961	.29623	.36450	.07265	.07667	.09020
	12.000	-2.00000	2615.71823	34.26563	522.27669	.27626	.29275	.34769	.07444	.07836	.09000
	14.000	-2.00000	2617.88397	34.29432	522.71407	.27326	.29156	.33725	.07489	.07908	.08917
	16.000	-2.00000	2615.78174	34.26626	522.28640	.27223	.29198	.33271	.07748	.08219	.09158
	18.000	-2.00000	2617.10403	34.28431	522.56139	.26692	.28767	.32602	.07857	.08371	.09291
	20.000	-2.00000	2615.61575	34.26406	522.25275	.26180	.28298	.31978	.07758	.08288	.09179
	22.000	-2.00000	2619.49899	34.31592	523.04321	.25792	.27873	.31452	.07802	.08335	.09225
	24.000	-2.00000	2624.04566	34.37497	523.94328	.25498	.27585	.30938	.07895	.08347	.09193
GRADIENT		.08000	.61442	.00822	.12524	-.08017	-.00186	-.00666	.00050	.00021	-.00044

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ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7905) (02 AUG 75)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIRLOW =

ELEVON = .000
BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
.600	.000	.00000	2636.13434	2067.16983	568.96451	.12711	.12104	.12123	-.10941	-.10936	-.10930
2.000	.000	.00000	2636.45282	2067.42532	569.02750	.12659	.12659	.12652	-.09834	-.09835	-.09836
4.000	.000	.00000	2638.35844	2058.84036	569.52808	.12534	.12349	.12556	-.09590	-.09586	-.09590
6.000	.000	.00000	2635.83572	2067.04514	568.79059	.13950	.13937	.13917	-.08520	-.08526	-.08510
8.000	.000	.00000	2636.20016	2067.24875	568.96142	.12889	.12905	.12888	-.08812	-.08821	-.08817
10.000	.000	.00000	2635.93494	2067.10458	568.83035	.11373	.11355	.11368	-.08750	-.08739	-.08760
12.000	.000	.00000	2635.46613	2066.78952	568.67661	.10157	.10151	.10156	-.09187	-.09190	-.09185
14.000	.000	.00000	2635.11768	2067.19876	568.91891	.06774	.06784	.06773	-.10042	-.10054	-.10040
16.000	.000	.00000	2636.08533	2067.16296	568.92236	.03298	.03303	.03301	-.10747	-.10761	-.10755
18.000	.000	.00000	2638.61063	2068.99408	569.61665	-.00916	-.00915	.00946	-.12971	-.12973	-.12973
20.000	.000	.00000	2634.47891	2066.12332	568.35559	-.04543	-.04528	.04547	-.14680	-.14648	-.14704
22.000	.000	.00000	2630.10681	2062.55417	567.55264	-.08183	-.08153	-.08234	-.16313	-.16317	-.16480
24.000	.000	.00000	2629.67941	2061.72964	567.94977	-.13083	-.13087	-.13256	-.18943	-.18827	-.19162
GRADIENT		.00000	.55853	.41762	.14889	.00111	.00111	.00108	.00238	.00237	.00240

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
.900	.000	.00000	2113.98108	1249.92923	864.05185	.31325	.31282	.31292	-.02250	-.02248	-.02248
2.000	.000	.00000	2112.05286	1248.77386	863.27859	.32934	.32941	.32927	.00195	.00195	.00195
4.000	.000	.00000	2118.18839	1252.35219	865.83621	.32089	.32149	.32149	.00956	.00958	.00958
6.000	.000	.00000	2114.64374	1250.29912	864.34464	.32660	.32664	.32702	.02749	.02750	.02752
8.000	.000	.00000	2110.03122	1247.57364	862.45758	.32973	.33054	.33065	.03945	.03952	.03953
10.000	.000	.00000	2112.73361	1249.11789	863.61572	.30907	.30951	.30934	.04224	.04228	.04227
12.000	.000	.00000	2114.69836	1250.25999	864.43838	.28876	.28863	.28844	.04201	.04199	.04197
14.000	.000	.00000	2117.13947	1251.72624	864.41324	.25539	.25525	.25553	.03832	.03830	.03834
16.000	.000	.00000	2116.02139	1251.05911	864.96329	.23352	.23228	.23345	.03669	.03666	.03668
18.000	.000	.00000	2113.29510	1249.47339	863.82172	.19148	.19115	.19123	.02584	.02581	.02582
20.000	.000	.00000	2111.35150	1248.25099	863.10092	.15397	.15381	.15394	.00852	.00852	.00853
22.000	.000	.00000	2110.78241	1247.85742	862.92499	.10918	.10681	.10842	-.00884	-.00881	-.00886
24.000	.000	.00000	2113.14288	1249.38358	863.75931	.05860	.05827	.05800	-.03029	-.03014	-.03049
GRADIENT		.00000	1.05184	.60574	.44609	.00191	.00217	.00214	.00802	.00801	.00801

(EE7005) (02 AUG)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-03H)

ARC 11-97-87-03H 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8009 IN. YMRP = .0000 IN. YO
BREF = 936.6808 IN. ZMRP = 375.0008 IN. ZO
SCALE = .0300

RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
1.200	.000	2003.78401	828.63679	1166.39751	.50801	.50812	.50878	.16349	.16352	.16369
	2.080	2006.95002	827.95351	1165.34581	.50018	.50073	.50183	.17855	.17870	.17901
	4.000	2008.95390	827.74980	1165.05922	.50032	.50101	.50188	.19732	.19754	.19782
	6.000	2012.21327	828.46896	1167.47878	.48782	.48826	.48981	.19512	.19526	.19568
	8.000	2011.68602	829.32592	1167.27747	.48401	.48372	.48442	.19733	.19723	.19747
	10.000	2012.05740	829.42208	1167.41281	.46949	.46836	.46979	.17943	.17927	.17962
	12.000	2012.68660	829.63939	1167.71867	.45583	.45537	.45571	.14059	.14059	.14074
	14.000	2012.78661	829.69245	1167.79337	.44234	.44231	.44364	.12065	.12068	.12083
	16.000	2011.04118	829.14474	1167.02246	.41001	.41022	.41101	.11009	.11013	.11030
	18.000	2012.20539	829.51370	1167.54176	.36907	.36874	.36942	.08980	.08984	.08997
	20.000	2018.50417	831.53033	1170.38017	.33589	.33535	.33631	.07480	.07470	.07487
	22.000	2017.54966	831.40863	1170.20888	.30402	.30327	.30447	.05947	.05935	.05954
	24.000	2014.63448	830.32520	1169.68396	.27004	.26893	.27073	.03488	.03476	.03493
GRADIENT					-.00192	-.00178	-.08173	.08846	.00851	.00853

RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
1.400	.000	2043.25790	642.23148	1316.08347	.51310	.51907	.51973	.11600	.11609	.11710
	2.080	2048.25000	643.57806	1318.84294	.49199	.49630	.49697	.12358	.12439	.12433
	4.000	2046.36710	643.02779	1317.71530	.49141	.49483	.49536	.12472	.12538	.12548
	6.000	2036.68442	640.56650	1312.67154	.48784	.49268	.49451	.12837	.12933	.12968
	8.000	2036.48167	640.58681	1312.71315	.47565	.47897	.48249	.12416	.12482	.12562
	10.000	2037.06390	640.77697	1313.10286	.46225	.46549	.46595	.11927	.11991	.12000
	12.000	2032.87712	639.62427	1310.74869	.44802	.45179	.45039	.11643	.11643	.11646
	14.000	2034.53185	640.07636	1311.66714	.44624	.44953	.44881	.10900	.10963	.10950
	16.000	2038.71129	641.14881	1313.86484	.42731	.42731	.42717	.10290	.10345	.10333
	18.000	2034.88271	640.10445	1311.72469	.39127	.39437	.39532	.09457	.09510	.09534
	20.000	2029.02078	638.64844	1308.74098	.37583	.37583	.37813	.08617	.08654	.08609
	22.000	2029.79141	638.90320	1309.26305	.34693	.34693	.34915	.07745	.07787	.07790
	24.000	2028.09665	639.46732	1308.36984	.32682	.32682	.32882	.07303	.07338	.07339
GRADIENT					-.00542	-.00606	-.00609	.08818	.00210	.00209

TABULATED DATA - 0A161 (ARC 11-97-87-994)

ARC 11-97-87-994 0A161 ORBITER + RAKES

(EE7B06) (02 AUG 75)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6900 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0398

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ALFON = .000 EDLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
1.550	.000	.00000	1580.54596	401.10618	1045.16287	.40433	.40935	.41872	.07057	.07124	.07247
2.000	.000	.00000	1581.96228	401.46997	1046.11082	.40324	.41143	.41666	.07525	.07642	.07715
4.000	.000	.00000	1581.60306	401.36976	1045.84969	.40202	.40941	.41523	.07587	.07694	.07777
6.000	.000	.00000	1581.71835	401.39628	1045.91879	.39392	.39951	.40675	.08029	.08113	.08230
8.000	.000	.00000	1582.28792	401.54744	1046.31267	.38140	.38651	.39388	.07877	.07943	.08077
10.000	.000	.00000	1584.01578	401.96475	1047.40005	.37776	.38115	.38931	.07876	.07931	.08063
12.000	.000	.00000	1584.74577	402.14309	1047.86478	.37038	.37376	.38053	.07744	.07799	.07910
14.000	.000	.00000	1584.30254	402.03269	1047.57710	.36701	.36941	.37542	.07681	.07740	.07849
16.000	.000	.00000	1584.53708	402.09357	1047.73572	.36362	.36585	.37100	.07627	.07686	.07793
18.000	.000	.00000	1585.24020	402.26379	1048.17926	.32746	.32706	.33684	.07127	.07213	.07316
20.000	.000	.00000	1585.26917	402.27295	1048.28312	.32008	.32073	.32682	.07285	.07293	.07327
22.000	.000	.00000	1584.67165	402.12395	1047.81364	.30857	.31070	.31388	.06459	.06495	.06549
24.000	.000	.00000	1584.25276	402.01530	1047.53178	.29119	.29367	.29928	.05835	.05876	.05967
GRADIENT			.26428	.06590	.17771	-.08058	.08002	-.00087	.00132	.00142	.00133

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
1.750	.000	.00000	1657.74608	311.37225	1072.15997	.42263	.43301	.45455	.08384	.08540	.08857
2.000	.000	.00000	1657.99976	311.41864	1072.31970	.41906	.43139	.45444	.09013	.09215	.09582
4.000	.000	.00000	1657.20947	311.27179	1071.81404	.41972	.43113	.45458	.09127	.09316	.09659
6.000	.000	.00000	1656.47336	311.13422	1071.34035	.41524	.42263	.44240	.09113	.09237	.09555
8.000	.000	.00000	1657.27676	311.28436	1071.85733	.40258	.41115	.42748	.09390	.09645	.09719
10.000	.000	.00000	1657.32759	311.29292	1071.86681	.39923	.39943	.41302	.09345	.09460	.09489
12.000	.000	.00000	1656.50383	311.14008	1071.36053	.38260	.38912	.39995	.09164	.09267	.09330
14.000	.000	.00000	1657.07622	311.24621	1071.72598	.36843	.37471	.38915	.08726	.08816	.08855
16.000	.000	.00000	1656.60486	311.15659	1071.42461	.35878	.36373	.37062	.08620	.08738	.08853
18.000	.000	.00000	1656.32949	311.10577	1071.24582	.35347	.35912	.36804	.08401	.08401	.08494
20.000	.000	.00000	1655.80373	311.19482	1071.54903	.34024	.34539	.35804	.08296	.08306	.08198
22.000	.000	.00000	1657.27647	311.28256	1071.85149	.32185	.32646	.33799	.07876	.07968	.07759
24.000	.000	.00000	1657.16254	311.26139	1071.77823	.31025	.31448	.32649	.07442	.07525	.07559
GRADIENT			-.13413	-.02512	-.08643	-.08073	-.00047	.00001	.00166	.00194	.00210

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.6880 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6880 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ATLON = .000 BOFLAP = -7.170

RNWL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	ALPHA	BETA	PT	P	OCOMP	DPO11	DPO21	DPO31	DPO13	DPO23	DPO33
	.000	.00000	1847.14075	235.84824	1094.43971	.38038	.38856	.43079	.06915	.07189	.07597
	2.000	.00000	1846.77534	235.80064	1094.21881	.37988	.38365	.42568	.06975	.07182	.07623
	4.000	.00000	1847.06482	235.83535	1094.37987	.37377	.38757	.41663	.07239	.07445	.07871
	6.000	.00000	1846.70287	235.79072	1094.17278	.36768	.38184	.40843	.07465	.07689	.08100
	8.000	.00000	1846.84723	235.86916	1094.25936	.35614	.36952	.39195	.07566	.07786	.08157
	10.000	.00000	1847.73077	235.93651	1094.64980	.34587	.35862	.37588	.07469	.07653	.07974
	12.000	.00000	1847.06197	235.84271	1094.41403	.34473	.35439	.37109	.07474	.07640	.07924
	14.000	.00000	1846.76268	235.79962	1094.21408	.33814	.34764	.36358	.07213	.07364	.07611
	16.000	.00000	1846.78920	235.81072	1094.26528	.32903	.33728	.34979	.07109	.07251	.07466
	18.000	.00000	1846.62433	235.78563	1094.14917	.31708	.32507	.33902	.07262	.07411	.07666
	20.000	.00000	1846.86003	235.81953	1094.36648	.30434	.31332	.33018	.06965	.07121	.07330
	22.000	.00000	1846.82697	235.81627	1094.29134	.28887	.29643	.31304	.06981	.06723	.07038
	24.000	.00000	1845.84973	235.68545	1093.68892	.27304	.27989	.29526	.06571	.06708	.07813
	GRADIENT	.00000	-.01888	-.00322	-.01495	-.00165	-.00275	-.00339	.00081	.00069	.08859

RNWL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	ALPHA	BETA	PT	P	OCOMP	DPO11	DPO21	DPO31	DPO13	DPO23	DPO33
	.000	.00000	2058.62274	178.13523	1068.13583	.32543	.34565	.39055	.05710	.05990	.06580
	2.000	.00000	2058.69022	178.14101	1069.17053	.32076	.34013	.38735	.05930	.06214	.06796
	4.000	.00000	2058.24142	178.10249	1068.95941	.31506	.33167	.37001	.06130	.06389	.06965
	6.000	.00000	2059.67896	178.13995	1069.16425	.31302	.32955	.36283	.06282	.06559	.07079
	8.000	.00000	2059.63947	178.13634	1069.14375	.31024	.32556	.35730	.06434	.06683	.07255
	10.000	.00000	2059.11798	178.09175	1068.87497	.30510	.31932	.34567	.06459	.06702	.07143
	12.000	.00000	2058.74341	178.05964	1068.68224	.30033	.31282	.33663	.06504	.06710	.07118
	14.000	.00000	2059.55993	178.12881	1069.09737	.29695	.30795	.32789	.06556	.06844	.07215
	16.000	.00000	2059.36752	178.11318	1069.00357	.29159	.30158	.31934	.06723	.06912	.07243
	18.000	.00000	2058.83890	178.06788	1068.73170	.28361	.29371	.31127	.06374	.06768	.07098
	20.000	.00000	2059.20343	178.09903	1068.91862	.28165	.29174	.31387	.06947	.07153	.07582
	22.000	.00000	2058.94348	178.07676	1068.84662	.25472	.26359	.28352	.05161	.05381	.05542
	24.000	.00000	2058.85312	178.06898	1068.7885	.32599	.33924	.36588	.11957	.12651	.13857
	GRADIENT	.00000	-.09532	-.00818	-.04911	-.00259	-.00350	-.00516	.00105	.00109	.08094

TABULATED DATA - 0A16L (ARC 11-97-87-094)

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ARC 11-97-87-094 0A16L ORBITER + RAKES

(EE7005) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 373.0000 IN. Z0
SCALE = .0309

PARAMETRIC DATA

BETA = .080 ELEVON = .000
AIRLON = .008 BDFLAP = -.7170

RWL = 2.00 GRADIENT INTERVAL = -5.00/ =.00

MACH	2.503	ALPHA	BETA	PT	P	OCMP	DP011	DP021	DP031	DP013	DP023	DP033
	.000	.000	.00000	1493.02940	87.42978	658.00838	.33383	.35930	.42446	.07013	.07436	.08417
	2.000	.000	.00000	1495.07198	87.43218	658.02643	.33072	.35400	.41457	.07055	.07450	.08427
	4.000	.000	.00000	1494.35016	87.38912	657.70238	.32576	.34635	.40010	.07144	.07504	.08436
	6.000	.000	.00000	1494.94664	87.42504	657.97271	.32178	.34139	.38708	.07225	.07578	.08371
	8.000	.000	.00000	1495.11034	87.43490	658.04688	.31760	.33634	.37919	.07307	.07654	.08421
	10.000	.000	.00000	1494.33298	87.38847	657.69749	.31433	.33455	.37154	.07382	.07704	.08445
	12.000	.000	.00000	1494.98853	87.42791	657.99431	.30898	.32324	.35842	.07478	.07764	.08412
	14.000	.000	.00000	1494.32795	87.38815	657.69506	.30227	.31667	.34404	.07536	.07716	.08330
	16.000	.000	.00000	1494.89258	87.42212	657.95068	.29846	.31336	.33847	.07551	.07757	.08214
	18.000	.000	.00000	1494.35973	87.39025	657.71090	.29254	.30541	.32663	.07624	.07764	.08214
	20.000	.000	.00000	1494.85466	87.41989	657.93397	.28478	.29618	.31594	.07724	.07872	.07552
	22.000	.000	.00000	1494.36290	87.39047	657.71252	.27933	.29085	.31015	.07816	.07959	.07277
	24.000	.000	.00000	1494.88579	87.42173	657.94775	.27023	.28068	.29852	.06987	.06914	.07277
GRADIENT	.0000	.0000	.0000	-.16982	-.01016	-.07650	-.00202	-.00324	-.00534	.00033	.00017	-.00003

RWL = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	3.006	ALPHA	BETA	PT	P	OCMP	DP011	DP021	DP031	DP013	DP023	DP033
	.000	.000	.00000	1948.57863	51.17657	566.06326	.28977	.32293	.41212	.06196	.06769	.08201
	2.000	.000	.00000	1948.33086	51.16886	565.97688	.28977	.31418	.39881	.05995	.06495	.07844
	4.000	.000	.00000	1939.42018	51.14571	565.72091	.28315	.30952	.38780	.06117	.06581	.07875
	6.000	.000	.00000	1939.65381	51.15674	565.84290	.28147	.30634	.37151	.06244	.06698	.07844
	8.000	.000	.00000	1938.91023	51.15770	565.63232	.28049	.30421	.36487	.06463	.06932	.08026
	10.000	.000	.00000	1938.71480	51.16037	565.88296	.27808	.29972	.35349	.06580	.07013	.08017
	12.000	.000	.00000	1938.08939	51.14639	565.72841	.27208	.29076	.33582	.06515	.06878	.07732
	14.000	.000	.00000	1938.37943	51.15133	565.78307	.26768	.28450	.32355	.06468	.06815	.07566
	16.000	.000	.00000	1938.79555	51.17805	565.63618	.26586	.28274	.31545	.06548	.06895	.07547
	18.000	.000	.00000	1938.37152	51.15323	563.80401	.26245	.27848	.30773	.06708	.07050	.07550
	20.000	.000	.00000	1938.61790	51.16009	565.87995	.25505	.27034	.29715	.06755	.07050	.07359
	22.000	.000	.00000	1938.80849	51.13827	565.63856	.25554	.27212	.29896	.06754	.07093	.07379
	24.000	.000	.00000	1938.35316	51.15332	565.80502	.24205	.25841	.27976	.05866	.06179	.06548
GRADIENT	.0000	.0000	.0000	-.28961	-.00774	-.08593	-.00165	-.00335	-.00688	-.00050	-.00047	-.00062

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7D05) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
ALLRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2593.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RM/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.08

MACH	3.500	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
	.000	.000	.00000	2639.31985	34.57549	526.99553	.26729	.30513	.42274	.06054	.06773	.07083
	2.000	.000	.00000	2640.01665	34.58445	527.13617	.26504	.30029	.41217	.06038	.06697	.06615
	4.000	.000	.00000	2640.89995	34.59388	527.31057	.26286	.29477	.39553	.05988	.06586	.06334
	6.000	.000	.00000	2644.64433	34.64481	528.05621	.26136	.29281	.37580	.06129	.06738	.06241
	8.000	.000	.00000	2646.62357	34.67127	528.45853	.25969	.28324	.35752	.06400	.06837	.07889
	10.000	.000	.00000	2646.80231	34.67362	528.49525	.25743	.27743	.34118	.06977	.06471	.07664
	12.000	.000	.00000	2647.36594	34.68086	528.60566	.25227	.27378	.32773	.06586	.06737	.07818
	14.000	.000	.00000	2652.42508	34.74652	529.68644	.24924	.26893	.31566	.06180	.05594	.07526
	16.000	.000	.00000	2653.07376	34.75490	529.73420	.24579	.25538	.30341	.06160	.06574	.07558
	18.000	.000	.00000	2650.25250	34.71894	529.18607	.24612	.26493	.30061	.06491	.06810	.07580
	20.000	.000	.00000	2651.57239	34.73560	529.43997	.24344	.26231	.29615	.06373	.06793	.07529
	22.000	.000	.00000	2652.55411	34.74832	529.63383	.24057	.25932	.29227	.06478	.06904	.07636
	24.000	.000	.00000	2651.95234	34.74070	529.51771	.23825	.25629	.28818	.06385	.06786	.07582
GRADIENT			.00000	.39504	.00510	.07776	-.00111	-.00284	-.00680	-.00016	-.00847	-.00103

PARAMETRIC DATA

BETA	=	2.000	ELEVON	=	.000
ALLRON	=	.000	BDFLAP	=	-7.170

REFERENCE DATA:

SPRF	=	2693.0000	SQ.FT.	=	1076.6800	IN. X0'
LRF	=	474.8000	IN.	=	.0000	IN. Y0
BRF	=	936.6800	IN.	=	375.0000	IN. Z0
SCALE	=					

$RN/L = 4.23$
 $GRADIENT\ INTERVAL = -5.03 / 5.00$

MACH-

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DPQ-13

DP023.

DP083

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DEPT 1

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DP013

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DP033

PARAMETRIC DATA

1.000	ELEVON =	.000
.000	BBFLAP =	-7.170

BETA • • •
ALL BENT

STABILIZED DATA - DATA (ARC 11-97-87-094)

APC 11-97-87-094 OAKS ORBITER - RAKES

REFERENCE DATA

596F	=	2690.0000	SQ.FT.	XMRP	=	1076.8800	IN.	XO.
LRF	=	474.8000	IN.	YMRP	=	.0000	IN.	YO.
BPEF	=	936.8800	IN.	ZMRP	=	375.0000	IN.	ZO.
SCALE	=	.0300						

BN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH - 1.200
ALPHA

[illegible]

ENVIRONMENTAL	4.25	GRADIENT	INTERVAL	-5.00/	5.00
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PACH. = 1.400
ALPHA

1.400	BETA	P ₁	P	OEOMP	DP011	DP021	DP031	DP043	DP023	DP033
ALPHA	2.00000	2044.20187	64.2.54883	1316.73218	4.3296	4.3772	4.7643	0.8076	0.8143	0.8139
2.0000	2.00000	2045.48904	64.3.12893	1317.92126	4.1362	4.1811	4.1629	0.8692	0.8756	0.8736
4.000	2.00620	2046.14493	64.1.78395	1315.16679	4.1378	4.1783	4.1659	0.9473	0.9547	0.9523
5.000	2.00000	2044.57449	64.2.62568	1315.69233	4.0420	4.0725	4.0718	0.9715	0.9738	0.9831
8.000	2.00950	2046.79563	64.1.70628	1315.00722	3.9888	4.0226	4.0388	0.9354	0.9414	0.9443
10.000	2.00000	2035.77552	64.0.44118	1312.41475	3.8610	3.8373	3.8847	0.8604	0.8658	0.8646
12.000	2.00000	2036.94429	64.0.72521	1312.99580	3.7435	3.7572	0.8207	0.8281	0.8281	0.8231
14.000	2.00000	2039.65687	64.1.42471	1314.43822	3.7516	3.7479	0.7683	0.7735	0.7735	0.7700
16.000	2.00000	2039.65687	64.1.40276	1314.36522	3.6135	3.6131	35.422	0.6588	0.6631	0.6630
18.000	2.00000	2039.32877	64.1.25414	1314.10118	3.5460	3.5464	32.694	0.5789	0.5834	0.5958
20.000	2.00000	2033.81595	63.8.92500	1311.39922	3.1948	3.2187	32.655	0.5272	0.5365	0.5315
22.000	2.00000	2023.58159	63.7.19749	1305.76766	2.8201	2.8371	29.881	0.4412	0.4432	0.4433
24.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
26.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
28.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
30.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
32.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
34.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
36.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
38.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
40.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
42.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
44.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
46.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
48.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
50.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
52.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
54.000	2.00000	2021.60355	63.6.6.937	1304.70532	2.6058	2.6257	28.260	0.3831	0.3964	0.3965
56.000	2.00000	2021.60355	63.6.6.937	1304.70532						

(EE7805) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.370

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8800 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

RM/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
1.550	.000	2.00000	1563.49995	397.98504	1036.97871	.39111	.38643	.39354	.08444	.05513	.08604
2.000	2.000	2.00000	1570.76330	398.53609	1038.46596	.37289	.37955	.38453	.08443	.05735	.08806
4.000	4.000	2.00000	1572.20035	398.85619	1039.32613	.37059	.37630	.38172	.08550	.07233	.07112
6.000	6.000	2.00000	1572.37077	398.90357	1039.43916	.36803	.36446	.37473	.07197	.07266	.07362
8.000	8.000	2.00000	1573.70795	399.22253	1040.33282	.35913	.35278	.36201	.07201	.07087	.07167
10.000	10.000	2.00000	1573.65640	399.24512	1040.31351	.34760	.33226	.35714	.06781	.06822	.06928
12.000	12.000	2.00000	1572.64633	399.98661	1039.63991	.33174	.33448	.34033	.06680	.06905	.07001
14.000	14.000	2.00000	1572.69780	399.00035	1039.67572	.32033	.32786	.33174	.06586	.06822	.06905
16.000	16.000	2.00000	1572.12041	398.84843	1039.27586	.30877	.31187	.31679	.06484	.06777	.06877
18.000	18.000	2.00000	1571.97598	398.81422	1039.19070	.29902	.30238	.30709	.06385	.06643	.06743
20.000	20.000	2.00000	1574.13762	399.35440	1040.62433	.28655	.29060	.29493	.06284	.06527	.06635
22.000	22.000	2.00000	1576.42464	399.95516	1042.11156	.26956	.27441	.27828	.06184	.06385	.06484
24.000	24.000	2.00000	1576.96655	400.08383	1042.49895	.25700	.25964	.26540	.06021	.06245	.06302
GRADIENT		.00000	.92511	.22629	.58703	-.00263	-.00253	-.00295	.00127	.00139	.00127

RM/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
1.750	.000	2.00000	1656.77100	311.18217	1071.52611	.37851	.38111	.38451	.05348	.05472	.05579
2.000	2.000	2.00000	1655.31691	310.91837	1070.59739	.38182	.38500	.38844	.05777	.05879	.05910
4.000	4.000	2.00000	1655.46857	310.94556	1070.69418	.38160	.38566	.38941	.07357	.07384	.07384
6.000	6.000	2.00000	1655.59386	310.97010	1070.77524	.37360	.38129	.38633	.07256	.07413	.07538
8.000	8.000	2.00000	1656.17598	311.07782	1071.14619	.36768	.37533	.38662	.07328	.07444	.07549
10.000	10.000	2.00000	1656.23152	311.08252	1071.18300	.35565	.36143	.37323	.07159	.07251	.07336
12.000	12.000	2.00000	1656.29276	311.09945	1071.22061	.34310	.35451	.36386	.07004	.07094	.07157
14.000	14.000	2.00000	1656.36481	311.11320	1071.26796	.33695	.34267	.35318	.06808	.06909	.07020
16.000	16.000	2.00000	1656.44993	310.96556	1070.81123	.32952	.32865	.33830	.05775	.05807	.05822
18.000	18.000	2.00000	1656.39903	311.06919	1071.11641	.32194	.32194	.32991	.05715	.05807	.05855
20.000	20.000	2.00000	1656.39903	311.11937	1071.26886	.29675	.29096	.30192	.05130	.05210	.05355
22.000	22.000	2.00000	1655.98810	311.04332	1071.02734	.28682	.29096	.30192	.04762	.04817	.04864
24.000	24.000	2.00000	1655.65131	310.98100	1070.81276	.26924	.27221	.28288	.04766	.04830	.04885
GRADIENT		.00000	-.32563	-.06040	-.20799	.00377	.00339	.00422	.00177	.00175	.00179

(EE7006) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2699.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RM/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000
ALPHA

BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
2.00000	1845.98238	235.71697	1093.83054	.33681	.35425	.38010	.05363	.05517	.05825
2.00000	1845.69019	235.58356	1093.67549	.33304	.34804	.37527	.05463	.05556	.05996
4.00000	1844.79626	235.56110	1093.10722	.33590	.35014	.37572	.05569	.05734	.06079
6.00000	1844.06850	235.45566	1092.66437	.33370	.34712	.36960	.05741	.05741	.06029
8.00000	1845.05612	235.59471	1093.26320	.32465	.33609	.35852	.05563	.05718	.06016
10.00000	1845.94762	235.71702	1093.83081	.31864	.32557	.34764	.05349	.05495	.05734
12.00000	1845.38353	235.63526	1093.45602	.30564	.31514	.33083	.05200	.05350	.05541
14.00000	1846.05315	235.72144	1093.85130	.29433	.30295	.31744	.05155	.05288	.05490
16.00000	1846.19992	235.73932	1093.93427	.28411	.29171	.30461	.05073	.05190	.05395
18.00000	1846.65709	235.79776	1094.20544	.27814	.28614	.29814	.04974	.05090	.05295
20.00000	1847.25053	235.88923	1094.62527	.27189	.27959	.29189	.04793	.04926	.05140
22.00000	1847.20595	235.88139	1094.59354	.26757	.27448	.28648	.04118	.04270	.04473
24.00000	1846.34912	235.77158	1094.08394	.23612	.24267	.25665	.03749	.03836	.04019
GRADIENT	.00000	-.29551	-.18083	-.00023	-.00103	-.00110	.00057	.00059	.00063

RM/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250
ALPHA

BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
2.00000	2059.21463	178.10006	1068.92479	.33608	.35957	.40451	.05948	.06157	.06752
2.00000	2059.05692	178.08647	1068.84325	.33303	.35501	.39777	.05927	.06248	.06807
4.00000	2059.38257	178.11435	1069.01056	.32798	.34752	.38842	.06148	.06438	.07022
6.00000	2059.19321	178.09823	1068.91354	.32198	.33910	.37407	.06326	.06594	.07124
8.00000	2059.07336	178.08938	1068.85459	.31793	.33418	.36551	.06431	.06694	.07203
10.00000	2059.48004	178.12255	1069.05989	.31117	.32524	.35185	.06527	.06765	.07284
12.00000	2059.62592	178.04952	1068.62146	.30592	.31832	.34424	.06593	.06832	.07254
14.00000	2059.07443	178.08793	1068.85205	.29885	.31036	.33250	.06516	.06715	.07105
16.00000	2059.61589	178.04655	1068.61566	.29648	.30736	.32871	.06568	.06765	.07144
18.00000	2058.53250	178.04136	1068.57248	.29046	.30237	.32573	.06553	.06784	.07209
20.00000	2058.52417	178.04055	1068.56763	.28014	.29120	.31492	.06129	.06327	.06745
22.00000	2059.59705	178.04666	1068.60429	.27853	.28922	.31279	.06401	.06605	.07043
24.00000	2059.37756	178.02781	1068.49115	.25787	.26730	.28625	.03755	.03878	.04123
GRADIENT	.00000	.00357	.02144	-.00203	-.00301	-.00402	.00075	.00056	.00067

(EE70DS) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ23	DPQ33
ALPHA	2.00000	1487.32057	86.97802	654.60834	.30587	.33110	.05291	.05638	.06356
	2.00000	1487.99101	87.01836	654.91200	.30633	.33030	.05576	.05556	.05556
	4.000	1487.96725	87.01707	654.90228	.30263	.32358	.05654	.05977	.05703
	6.000	1487.96211	87.01669	654.89940	.29631	.31575	.05576	.05976	.05549
	8.000	1487.95708	87.01653	654.89824	.29330	.31127	.05912	.06110	.05759
	10.000	1487.951705	87.01443	654.88243	.29330	.30335	.05958	.05844	.05423
	12.000	1487.93314	87.01538	654.88956	.28709	.29752	.05633	.05877	.05391
	14.000	1487.92639	87.01463	654.88538	.28251	.29026	.05545	.05760	.05210
	16.000	1487.94725	87.01604	654.89454	.27225	.28444	.05402	.05684	.05082
	18.000	1487.92914	87.01502	654.88682	.26880	.28044	.05510	.05811	.05196
	20.000	1487.96275	87.01727	654.90379	.26155	.27299	.05513	.05713	.05055
	22.000	1487.95438	87.01694	654.90131	.25233	.26261	.05569	.05449	.05750
	24.000	1487.93357	87.01857	654.91432	.24424	.25343	.04953	.05117	.05406
GRADIENT	.00000	.16166	.00976	.07349	-.00081	-.00188	.00093	.00085	.00087

MACH = 3.000	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ23	DPQ33
ALPHA	2.00000	1939.15904	51.12361	565.47639	.26731	.30178	.04776	.05274	.06323
	2.00000	1940.13321	51.14938	565.76151	.26153	.29359	.04571	.05138	.06171
	4.000	1939.45256	51.13434	565.59507	.26121	.29541	.04990	.05431	.06507
	6.000	1939.50689	51.13526	565.60524	.25863	.29396	.04934	.05330	.06275
	8.000	1939.64354	51.14013	565.65913	.25580	.27683	.04970	.05338	.06209
	10.000	1937.17825	51.07750	564.96639	.25264	.27513	.05030	.05400	.05794
	12.000	1937.09195	51.10284	565.24663	.24499	.26425	.04802	.05116	.05499
	14.000	1937.60145	51.08720	565.07146	.23113	.25776	.04708	.04979	.05589
	16.000	1939.26642	51.13221	565.57153	.23931	.25485	.04875	.05140	.05593
	18.000	1938.53479	51.11276	565.35537	.23664	.25177	.04833	.05093	.05438
	20.000	1939.72614	51.12192	565.45771	.23143	.24613	.04748	.05002	.05254
	22.000	1938.94317	51.12888	565.53468	.22760	.24172	.04645	.04890	.05142
	24.000	1938.90468	51.12956	565.52891	.22445	.23615	.04539	.04773	.05142
GRADIENT	.00000	.07340	.00268	.02967	-.00153	-.00309	.00054	.00039	.00046

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER - RAKES

(EE7D07) (02 AUG 75)

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 SPEF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .500	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
ALPHA	5.00000	2624.00095	2057.68289	566.31805	-.04203	-.04201	-.04204	-.17482	-.17474	-.17485
2.000	5.00000	2623.93231	2057.61972	566.31259	-.02487	-.02489	-.02486	-.16092	-.16103	-.16086
4.000	5.00000	2624.65535	2059.36877	566.48758	-.01915	-.01915	-.01915	-.15053	-.15053	-.15050
6.000	5.00000	2627.65573	2060.37475	567.28098	-.02943	-.02943	-.02938	-.15547	-.15548	-.15526
8.000	5.00000	2625.01135	2059.40189	566.60947	-.02734	-.02734	-.02734	-.15205	-.15200	-.15209
10.000	5.00000	2625.86368	2059.05568	566.85800	-.04258	-.04248	-.04251	-.15350	-.15318	-.15327
12.000	5.00000	2624.17437	2057.86570	566.30737	-.03129	-.03133	-.03142	-.15902	-.15815	-.15839
14.000	5.00000	2624.36069	2058.02087	566.51654	-.07404	-.07413	-.07430	-.17248	-.17267	-.17302
16.000	5.00000	2624.72836	2058.21182	566.51654	-.09847	-.09837	-.09852	-.18240	-.18256	-.18266
18.000	5.00000	2627.19732	2059.98523	567.23209	-.12859	-.12838	-.12862	-.19458	-.19428	-.19462
20.000	5.00000	2627.48154	2050.22818	567.25336	-.16838	-.16812	-.16873	-.21558	-.21526	-.21599
22.000	5.00000	2625.04254	2059.51157	566.53098	-.20007	-.19935	-.20161	-.23641	-.23660	-.23815
24.000	5.00000	2625.90552	2059.18518	566.72034	-.23245	-.23050	-.23539	-.25768	-.25559	-.26083
GRADIENT	.00000	.21397	.17145	.04238	.00572	.00572	.00572	.00607	.00606	.00609

RV/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900	BETA	PT	P	QCOMP	DP011	DP021	DP031	DP013	DP023	DP033
ALPHA	5.00000	2111.48715	1248.50783	862.97934	.13534	.13523	.13945	-.07259	-.07255	-.07264
2.000	5.00000	2115.43283	1250.78174	864.65109	.13994	.13979	.13986	-.05832	-.05827	-.05830
4.000	5.00000	2117.10139	1251.73029	865.37109	.14423	.14415	.14412	-.04419	-.04417	-.04416
6.000	5.00000	2114.79214	1250.37328	864.41888	.14802	.14778	.14775	-.03270	-.03266	-.03265
8.000	5.00000	2109.96957	1247.40634	862.56323	.14225	.14205	.14204	-.02308	-.02306	-.02306
10.000	5.00000	2105.56833	1251.47731	865.09103	.12297	.12301	.12311	-.02217	-.02218	-.02219
12.000	5.00000	2116.71036	1251.56195	865.14841	.11510	.11509	.11511	-.02329	-.02329	-.02329
14.000	5.00000	2112.28323	1248.90517	863.37808	.09581	.09572	.09576	-.02708	-.02705	-.02706
16.000	5.00000	2114.90735	1250.43449	864.47287	.07683	.06758	.06765	-.03319	-.03317	-.03320
18.000	5.00000	2115.76745	1250.94557	864.82080	.03975	.03974	.03977	-.04354	-.04353	-.04355
20.000	5.00000	2108.11169	1246.37889	861.73282	.03731	.00729	.00731	-.05882	-.05872	-.05887
22.000	5.00000	2109.97089	1247.37915	862.59174	-.03004	-.02991	-.03010	-.08059	-.08025	-.08073
24.000	5.00000	2116.70166	1251.42284	865.27884	-.05952	-.05904	-.06988	-.10615	-.10544	-.10657
GRADIENT	.00000	1.40354	.80562	.59794	.00222	.00223	.00217	.00710	.00709	.00712

(EE70077) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2699.0000' SQ.FT. XMRP = 1076.6800 IN. XC
REF = 474.8000 IN. YMRP = .0000 IN. YC
SREF = 936.6400 IN. ZMRP = 375.0000 IN. ZC
SCALE = .0300

RNVL = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.288

ALPHA	PT	P	QCOMP	DP021	DP031	DP013	DP024	DP033
1.000	5.00000	2011.53359	829.44221	32776	32845	10869	10873	10887
2.000	5.00000	2009.60754	828.89453	31610	31660	12841	12839	12856
4.000	5.00000	2010.79175	829.08212	31054	31128	13430	13447	13457
6.000	5.00000	2013.55270	830.00262	30760	30817	13952	13955	13965
8.000	5.00000	2013.06412	829.84943	30089	30141	13320	13323	13341
10.000	5.00000	2013.08351	829.88634	28461	28493	08937	08937	08943
12.000	5.00000	2013.92958	830.14828	28699	28702	04994	04994	04995
14.000	5.00000	2014.49097	830.35471	27477	27471	04070	04069	04063
16.000	5.00000	2014.72244	830.37983	23821	23753	03262	03260	03254
18.000	5.00000	2016.26015	830.79517	20824	20784	01679	01676	01675
20.000	5.00000	2018.09566	831.44070	17993	17949	00063	00062	00059
22.000	5.00000	2018.50551	830.83852	15408	15352	-01622	-01618	-01617
24.000	5.00000	2018.10297	831.41154	12695	12608	-04537	-04516	-04510
GRADIENT	0.0000	-1.18549	-0.09002	-0.00430	-0.00429	0.00640	0.00643	0.00643

RNVL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400

ALPHA	PT	P	QCOMP	DP021	DP031	DP013	DP023	DP033
1.000	5.00000	2051.64871	644.49467	34158	34385	04628	04689	04652
2.000	5.00000	2052.59506	644.77777	33240	33382	05564	05609	05583
4.000	5.00000	2045.37286	642.84837	32608	32723	05777	05821	05793
6.000	5.00000	2043.72665	642.43147	32077	32359	05834	05870	05875
8.000	5.00000	2038.74538	641.18506	31501	31802	05450	05450	05453
10.000	5.00000	2037.38092	640.82363	30349	30592	05000	05034	05030
12.000	5.00000	2038.57976	641.10539	30284	30393	04387	04421	04389
14.000	5.00000	2044.59329	642.68520	29543	29463	03373	03373	03356
16.000	5.00000	2042.24944	642.08585	28324	28361	02442	02439	02442
18.000	5.00000	2029.50903	638.78259	24094	24278	01499	01508	01507
20.000	5.00000	2032.02077	639.50005	23005	23176	00319	00316	00316
22.000	5.00000	2035.48625	640.41441	21031	21106	-00627	-00630	-00632
24.000	5.00000	2020.62016	636.51413	19366	19480	-01054	-01059	-01065
GRADIENT	0.0000	-1.56897	-0.41158	-0.00388	-0.00415	0.00287	0.00288	0.00285

(EE7D07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 EQFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
	.000	5.00000	1561.82259	396.34618	1032.75942	.31872	.32211	.32778	.03252	.03258	.03303
	2.000	5.00000	1563.04628	396.65676	1033.58905	.32108	.32493	.33146	.03993	.04030	.04094
	4.000	5.00000	1563.16922	396.66547	1033.59172	.31320	.31751	.32236	.04467	.04516	.04570
	6.000	5.00000	1563.46620	396.74025	1033.78656	.30718	.31051	.31467	.04584	.04623	.04673
	8.000	5.00000	1567.33949	397.71354	1036.32269	.29921	.30143	.30629	.04485	.04512	.04570
	10.000	5.00000	1572.23866	398.95424	1039.55556	.28922	.29109	.29540	.03723	.03743	.03787
	12.000	5.00000	1570.17735	398.42992	1038.18909	.27696	.27953	.28209	.03294	.03319	.03344
	14.000	5.00000	1568.15354	397.92425	1036.87173	.25799	.26169	.2652	.02878	.02910	.02953
	16.000	5.00000	1568.63318	398.03831	1037.16833	.25474	.25764	.26091	.01899	.01916	.01936
	18.000	5.00000	1568.80666	398.12054	1037.25596	.23369	.23646	.24054	.01092	.01103	.01119
	20.000	5.00000	1568.97487	398.12054	1037.38345	.21446	.21629	.22181	.00498	.00501	.00512
	22.000	5.00000	1571.11673	398.66939	1038.91490	.20126	.20184	.20638	.00146	.00146	.00149
	24.000	5.00000	1571.43859	398.73846	1038.99330	.19306	.19366	.19745	-.01190	-.01193	-.01213
	GRADIENT	.00000	.33565	.07983	.20800	-.00136	-.00115	-.00135	.00309	.00314	.00317

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	OCOMP	DPQ11	DPQ21	DPQ31	DPQ13	DPQ23	DPQ33
	.000	5.00000	1655.65865	310.98268	1070.81854	.32465	.32866	.34421	.03420	.03486	.03579
	2.000	5.00000	1655.87311	311.02239	1070.95529	.32573	.33239	.34452	.03470	.03532	.04043
	4.000	5.00000	1655.81648	311.01186	1070.91904	.31478	.32208	.33274	.04121	.04196	.04305
	6.000	5.00000	1655.53960	311.14503	1071.38103	.30765	.31291	.32244	.04157	.04213	.04315
	8.000	5.00000	1655.73843	310.99725	1070.86871	.30351	.30351	.31386	.03976	.04032	.04139
	10.000	5.00000	1655.74200	310.99360	1070.87334	.30048	.30048	.30844	.03874	.03925	.04007
	12.000	5.00000	1654.84193	310.82005	1070.25954	.29562	.28788	.29374	.03574	.03629	.03688
	14.000	5.00000	1654.26360	311.09285	1071.19794	.28248	.27796	.28800	.03149	.03207	.03300
	16.000	5.00000	1655.03867	311.15466	1071.06638	.26156	.26668	.27725	.02476	.02516	.02595
	18.000	5.00000	1655.32122	310.85534	1070.38005	.24675	.25190	.26088	.02022	.02066	.02115
	20.000	5.00000	1654.73904	310.79940	1070.18747	.23349	.23843	.24753	.01738	.01788	.01823
	22.000	5.00000	1655.71509	310.98600	1070.82997	.22062	.22544	.23433	.01370	.01396	.01440
	24.000	5.00000	1655.66179	311.16761	1071.45531	.21022	.21486	.22276	.00610	.00621	.00640
	GRADIENT	.00000	.03946	.00730	.02512	-.00247	-.00265	-.00287	.00175	.00177	.00181

(EE7D07) (02 AUG 75)

TABULATED DATA - OAL61 (ARC 11-97-87-89+)

ARC 11-97-87-89+ OAL61 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8200 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .008
AILRON = .000 BDFLAP = -7.178

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP011	DP021	DP031	DP013	DP023	DP033
2.000	.000	5.00000	1837.93884	234.25348	1087.03931	.29167	.30451	.32309	.02910	.03071	.03154
2.000	.000	5.00000	1830.93813	233.75630	1084.73218	.28696	.29856	.31781	.02953	.03058	.03213
4.000	.000	5.00000	1831.48227	233.83033	1085.07568	.28151	.29084	.30976	.03276	.03353	.03535
6.000	.000	5.00000	1831.73577	233.86908	1085.25099	.27341	.28327	.30171	.03401	.03504	.03686
8.000	.000	5.00000	1834.07391	234.17432	1085.67477	.26159	.27065	.28719	.02937	.03020	.03189
10.000	.000	5.00000	1836.11595	234.42052	1087.81444	.25525	.26293	.27759	.02988	.02959	.03032
12.000	.000	5.00000	1836.10439	234.41899	1087.80734	.24827	.25775	.26976	.02901	.02992	.03105
14.000	.000	5.00000	1841.38962	235.10691	1090.99360	.24037	.24845	.26293	.02798	.02875	.03012
16.000	.000	5.00000	1849.86311	236.19734	1096.05869	.23167	.23918	.25613	.02054	.02108	.02250
18.000	.000	5.00000	1849.98158	236.21837	1093.15729	.22149	.22825	.24410	.01636	.01677	.01772
20.000	.000	5.00000	1845.65546	235.66034	1093.56539	.20821	.21422	.22751	.01475	.01511	.01583
22.000	.000	5.00000	1847.52986	235.89350	1094.55019	.19437	.20025	.21236	.00618	.00533	.00656
24.000	.000	5.00000	1848.52892	236.04575	1095.35625	.18372	.19003	.20086	.00376	.00387	.00405
GRADIENT		.00000	.86914	.10379	.49091	.00254	.00342	.00333	.00092	.00088	.00095

MACH	ALPHA	BETA	PT	P	OCOMP	DP011	DP021	DP031	DP013	DP023	DP033
2.250	.000	5.00000	2059.36877	178.11419	1069.00958	.27000	.26958	.31843	.03095	.03273	.03531
2.000	.000	5.00000	2058.48529	178.03863	1068.55612	.26860	.28702	.31653	.03663	.03856	.04180
4.000	.000	5.00000	2059.33249	178.11115	1068.99139	.26577	.28321	.31245	.03975	.04081	.04416
6.000	.000	5.00000	2059.45581	178.12163	1069.05426	.26093	.27587	.30400	.03677	.03849	.04152
8.000	.000	5.00000	2059.44626	179.03483	1068.53333	.25456	.26886	.29436	.03639	.03807	.04097
10.000	.000	5.00000	2059.21469	178.10055	1068.92778	.25051	.26316	.28504	.03643	.03793	.04048
12.000	.000	5.00000	2058.72852	178.05887	1068.67758	.24705	.25887	.27995	.03508	.03646	.03887
14.000	.000	5.00000	2058.34939	178.02505	1068.47466	.24472	.25758	.27745	.03337	.03491	.03699
16.000	.000	5.00000	2059.73508	178.14456	1069.19247	.24069	.25204	.27647	.03492	.03628	.03914
18.000	.000	5.00000	2058.78250	178.05276	1068.70093	.23336	.24257	.26607	.03089	.03195	.03448
20.000	.000	5.00000	2059.63272	178.13587	1069.13972	.23704	.24703	.26890	.02793	.02890	.03088
22.000	.000	5.00000	2058.95166	178.07759	1069.78992	.22017	.23055	.25159	.02159	.02238	.02403
24.000	.000	5.00000	2058.71259	178.05585	1069.66547	.23248	.24221	.26233	.03374	.03374	.03504
GRADIENT		.00000	.00907	.00076	.00455	.00106	.00159	.00150	.00195	.00202	.00221

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7007) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SO.FT. XMRP = 1076.5800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	BETA	PT	P	OCOMP	DP011	DP021	DP031	DP013	DP023	DP033
ALPHA .000	5.00000	1487.41808	86.98371	654.65117	27332	29713	33894	03609	03861	04284
2.000	5.00000	1487.53204	86.99042	654.70170	26733	29030	33050	03531	03773	04186
4.000	5.00000	1487.58735	86.99357	654.72614	26472	28539	32427	03653	03883	04380
6.000	5.00000	1487.58563	86.99354	654.72516	26090	28037	31845	03920	04158	04606
8.000	5.00000	1487.63661	86.99529	654.73832	25433	27159	30596	03997	04114	04543
10.000	5.00000	1487.63735	86.99730	654.75346	24962	26479	29595	03732	03319	04290
12.000	5.00000	1487.63515	86.99718	654.75657	24354	25807	28565	03534	03708	04031
14.000	5.00000	1487.64052	86.99771	654.75660	23657	25104	27664	03365	03535	03828
16.000	5.00000	1487.63156	86.99771	654.76619	23423	24645	27144	03290	03433	03717
18.000	5.00000	1487.64584	86.99899	654.76619	22952	23985	26251	03107	03223	03473
20.000	5.00000	1487.64817	86.99842	654.74684	22272	23306	25236	02840	02950	03157
22.000	5.00000	1487.61295	86.99821	654.74979	21637	22599	24501	02559	02655	02833
24.000	5.00000	1487.57954	86.99521	654.73773	21459	22356	24025	02247	02326	02469
GRADIENT	.00000	.04233	.00249	.01874	-0.0215	-0.0294	-0.0367	.00011	.00005	.00004

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	BETA	PT	P	OCOMP	DP011	DP021	DP031	DP013	DP023	DP033
ALPHA .000	5.00000	1939.46461	51.12282	565.46770	24199	27518	33463	03108	03454	04035
2.000	5.00000	1937.72949	51.07815	564.97363	23793	26973	32919	03161	03805	04110
4.000	5.00000	1938.05081	51.08625	565.06321	23103	26092	31779	03027	03346	03923
6.000	5.00000	1938.52211	51.09901	565.20436	22805	25518	31075	03100	03404	03992
8.000	5.00000	1938.14912	51.09524	565.16261	22321	24632	29753	03085	03351	03809
10.000	5.00000	1938.11229	51.09543	565.17573	21907	24083	28680	03013	03282	03764
12.000	5.00000	1937.93176	51.09222	565.12921	21415	23341	27244	02904	03122	03556
14.000	5.00000	1938.21223	51.10291	565.24744	20915	22673	26495	02789	02985	03397
16.000	5.00000	1938.80711	51.12403	565.48102	20517	22073	25557	02680	02851	03222
18.000	5.00000	1938.64461	51.12433	565.48442	20332	21675	24940	02567	02710	03046
20.000	5.00000	1938.51359	51.11730	565.40661	19985	21296	24177	02562	02705	03008
22.000	5.00000	1938.80377	51.12642	565.50747	19625	20861	23430	02278	02400	02646
24.000	5.00000	1938.09142	51.11131	565.34934	19771	21067	23341	02181	02302	02528
GRADIENT	.00000	-.35345	-.00914	-.10112	-0.0274	-0.0357	-0.0421	-0.0020	-0.0027	-0.0028

(EE7907) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBLITER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500
ALPHA

ALPHA	BETA	PT	P	OCOMP	DP011	DP021	DP031	DP013	DP023	DP033
0.000	5.00000	2683.02945	35.14780	535.72283	.24257	.28723	.36827	.03452	.03965	.04982
2.000	5.00000	2682.78683	35.14482	535.67736	.23484	.27728	.35772	.03314	.03800	.04850
4.000	5.00000	2680.98332	35.12155	535.52269	.22903	.26976	.34560	.03356	.03845	.04886
6.000	5.00000	2682.68059	35.14306	535.65053	.22599	.26148	.33727	.03447	.03983	.04777
8.000	5.00000	2680.66055	35.11761	535.26256	.22193	.25137	.32183	.03362	.03731	.04558
10.000	5.00000	2682.31409	35.13848	535.58065	.21875	.24670	.30981	.03430	.03799	.04570
12.000	5.00000	2680.79222	35.11946	535.29087	.21459	.23916	.29480	.03446	.03776	.04495
14.000	5.00000	2681.94269	35.11391	535.51109	.20895	.23126	.28218	.03267	.03660	.04197
16.000	5.00000	2680.82374	35.11978	535.28040	.20577	.22496	.27373	.03190	.03438	.04038
18.000	5.00000	2690.17957	35.11156	535.17036	.20732	.22458	.26992	.03273	.03503	.04083
20.000	5.00000	2692.18320	35.13711	535.55972	.20306	.21973	.25937	.03197	.03233	.03672
22.000	5.00000	2690.60205	35.11565	535.23274	.20337	.22108	.25606	.03011	.03233	.03655
24.000	5.00000	2690.41901	35.11479	535.21957	.20259	.22079	.25263	.02886	.03104	.03473
GRADIENT	.00000	-5.654	-0.0956	-1.0005	-.00339	-.00437	-.00567	-.00024	-.00030	-.00034

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES.

(EETX03) (02 AUG 76)

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. Y = 1076.6800 IN. X0
LREF = 474.8000 IN. ZP = .0000 IN. Y0
SPEF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
1.200	.000	-5.00000	2008.91339	828.82202	1166.55822	.77992	.77982	.77886	.99284	.99275	.99195
2.000	.000	-5.00000	2009.58676	829.57557	1166.22134	.78256	.78226	.78124	.98644	.98616	.98632
4.000	.000	-5.00000	2012.39209	829.41618	1167.40450	.78745	.78727	.78620	.97945	.97928	.97937
6.000	.000	-5.00000	2007.30258	829.01813	1165.43674	.78750	.78727	.78655	.97217	.97217	.97164
8.000	.000	-5.00000	2005.19105	827.76439	1165.08044	.78971	.78965	.78946	.97698	.97693	.97591
10.000	.000	-5.00000	1999.63334	826.38320	1163.13528	.79207	.79189	.79080	.98352	.98337	.98344
12.000	.000	-5.00000	2001.46515	826.74893	1163.65221	.80036	.80039	.79947	.98959	.98961	.98882
14.000	.000	-5.00000	2001.00822	826.64796	1163.50826	.80681	.80634	.80575	1.00326	1.00339	1.00235
16.000	.000	-5.00000	1999.43224	826.38320	1163.03114	.81573	.81546	.81467	1.01616	1.01593	1.01525
18.000	.000	-5.00000	2003.10523	827.23448	1164.03153	.83281	.83281	.83206	1.02749	1.02762	1.02697
20.000	.000	-5.00000	2002.65022	826.60285	1163.47430	.84516	.84516	.84390	1.03551	1.03590	1.03483
22.000	.000	-5.00000	1996.12405	825.65847	1162.11552	.85617	.85616	.85474	1.04509	1.04529	1.04383
24.000	.000	-5.00000	1995.54181	825.41549	1161.77493	.87462	.87419	.87323	1.05515	1.05554	1.05392
UPADIENT		.00000	.86667	.14554	.20908	.20188	.00186	.00183	-1.00335	-1.00337	-1.00340

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
1.550	.000	-5.00000	1578.31139	400.01955	1042.32884	1.00569	1.00022	.98832	1.33843	1.33298	1.32219
2.000	.000	-5.00000	1578.99117	400.18729	1042.76854	1.00476	.99835	.99131	1.33122	1.32484	1.31788
4.000	.000	-5.00000	1577.32025	399.79139	1041.71757	1.00653	1.00018	.99379	1.32621	1.31979	1.31347
6.000	.000	-5.00000	1577.34309	399.79176	1041.73790	1.01169	1.00623	.99829	1.32688	1.31544	1.30759
8.000	.000	-5.00000	1578.35994	400.01287	1042.36515	1.01647	1.01222	1.00184	1.32193	1.31769	1.30738
10.000	.000	-5.00000	1575.77289	399.39394	1040.70128	1.02252	1.01816	1.00870	1.32224	1.31787	1.30848
12.000	.000	-5.00000	1575.64324	399.36581	1040.63941	1.02778	1.02425	1.01613	1.32355	1.31999	1.31195
14.000	.000	-5.00000	1575.95392	399.44687	1040.83922	1.03549	1.03161	1.02437	1.32718	1.32326	1.31590
16.000	.000	-5.00000	1575.97449	399.45256	1040.85405	1.04158	1.03855	1.03077	1.32765	1.32369	1.32212
18.000	.000	-5.00000	1576.57609	399.52647	1041.04633	1.05195	1.04926	1.04299	1.33653	1.33389	1.32750
20.000	.000	-5.00000	1576.91670	399.41241	1040.74942	1.06076	1.05803	1.05148	1.33467	1.33188	1.32519
22.000	.000	-5.00000	1576.63844	399.41516	1040.75695	1.06949	1.06696	1.06196	1.33267	1.32997	1.32486
24.000	.000	-5.00000	1576.42549	399.57412	1041.17079	1.07929	1.07649	1.07433	1.32867	1.32579	1.32259
GRADIENT		.00000	.86667	.14554	.20908	.00024	-1.00001	.00112	-1.00306	-1.00350	-1.00218

(EETX03) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 52.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	M1	M2	M3	M13	M23	M33
1.750	-5.00000	1643.42418	309.79275	1066.72121	1.05382	.04457	1.02349	1.44718	1.43739	1.41538
ALPHA	-5.00000	1650.93597	310.03348	1067.72229	1.05691	.04551	1.02267	1.44508	1.43303	1.40922
.000	-5.00000	1653.24094	309.94633	1067.25003	1.05939	.04850	1.02680	1.43845	1.42697	1.40435
2.000	-5.00000	1649.94432	309.89394	1067.06963	1.06341	.05499	1.03491	1.43216	1.42328	1.40232
4.000	-5.00000	1650.82304	310.06269	1067.65071	1.06951	.06317	1.04567	1.43881	1.43210	1.41369
6.000	-5.00000	1650.44762	309.98747	1067.39171	1.07633	1.07051	1.05454	1.44129	1.43641	1.41657
8.000	-5.00000	1651.41377	310.17471	1068.03642	1.08273	1.07770	1.06336	1.43902	1.43367	1.41861
10.000	-5.00000	1651.02856	310.09678	1067.76807	1.08943	1.08420	1.07161	1.44039	1.43482	1.42147
12.000	-5.00000	1652.14075	309.92978	1067.19304	1.09635	1.09126	1.08004	1.43984	1.43443	1.42250
14.000	-5.00000	1653.84254	310.06310	1067.65240	1.10473	1.09922	1.08980	1.43647	1.43063	1.42062
16.000	-5.00000	1651.38724	310.16493	1068.00276	1.11652	1.11090	1.10063	1.43088	1.42483	1.41339
18.000	-5.00000	1651.57825	310.20011	1068.12389	1.12557	1.11930	1.10721	1.43452	1.42847	1.41499
20.000	-5.00000	1651.58163	310.20077	1068.12617	1.13274	1.12673	1.11257	1.42587	1.41946	1.40445
22.000	-5.00000	1651.58163	310.20077	1068.12617	1.13274	1.12673	1.11257	1.42587	1.41946	1.40445
24.000	-5.00000	1651.58163	310.20077	1068.12617	1.13274	1.12673	1.11257	1.42587	1.41946	1.40445
GRADIENT	.00000	.20419	.03840	.13221	.00139	.00098	.00083	-.00218	-.00261	-.00276

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	M1	M2	M3	M13	M23	M33
2.000	-5.00000	1847.06216	235.97826	1095.04305	1.15881	1.14294	1.10866	1.63427	1.61591	1.57460
ALPHA	-5.00000	1848.00623	236.10478	1095.63014	1.16724	1.15044	1.10669	1.62841	1.60915	1.56968
.000	-5.00000	1847.42177	235.02850	1095.27618	1.16647	1.15111	1.10769	1.62535	1.60776	1.56868
2.000	-5.00000	1846.95721	235.95262	1094.97344	1.16937	1.15818	1.12747	1.62283	1.61002	1.57516
4.000	-5.00000	1846.99805	235.95757	1094.99344	1.17442	1.16358	1.13622	1.62507	1.61255	1.58155
6.000	-5.00000	1846.46345	235.69915	1094.67396	1.17545	1.16527	1.14125	1.62141	1.60975	1.58247
8.000	-5.00000	1846.51515	235.69250	1094.69148	1.18634	1.17879	1.15720	1.61869	1.60730	1.58339
10.000	-5.00000	1846.62762	235.61659	1094.75582	1.20274	1.19187	1.17517	1.60921	1.59665	1.57739
12.000	-5.00000	1846.02921	235.83774	1094.39095	1.20884	1.19853	1.18184	1.61170	1.59939	1.58111
14.000	-5.00000	1846.55056	235.87904	1094.58261	1.20860	1.19939	1.18543	1.61345	1.60299	1.58716
16.000	-5.00000	1846.86518	235.94551	1094.89108	1.21510	1.20548	1.19114	1.60785	1.59695	1.58076
18.000	-5.00000	1847.20576	235.93892	1095.09203	1.22833	1.21768	1.20125	1.59261	1.58064	1.56225
20.000	-5.00000	1847.20576	235.93892	1095.09203	1.22833	1.21768	1.20125	1.59261	1.58064	1.56225
22.000	-5.00000	1847.20576	235.93892	1095.09203	1.22833	1.21768	1.20125	1.59261	1.58064	1.56225
24.000	-5.00000	1847.20576	235.93892	1095.09203	1.22833	1.21768	1.20125	1.59261	1.58064	1.56225
GRADIENT	.00000	.08990	.01236	.05829	.00189	.00204	.00208	-.00223	-.00204	-.00398

GRADIENT

(EE7X03) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6000 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

RM/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
.000	-5.00000	2051.52133	177.43511	1064.93391	1.27004	1.27682	1.27682	1.18897	1.84203	1.81348	1.74321
2.000	-5.00000	2050.73444	177.36766	1064.52908	1.27105	1.27684	1.27684	1.18713	1.84539	1.81743	1.74303
4.000	-5.00000	2050.90634	177.38244	1064.61781	1.26951	1.27419	1.27419	1.19097	1.83458	1.80966	1.73908
6.000	-5.00000	2050.73329	177.36738	1064.52737	1.27587	1.25971	1.25971	1.21286	1.82427	1.80454	1.74787
8.000	-5.00000	2051.17939	177.40587	1064.75842	1.28930	1.27179	1.27179	1.23176	1.83440	1.80430	1.75595
10.000	-5.00000	2051.78479	177.45775	1065.06981	1.29485	1.27960	1.27960	1.24228	1.81666	1.79119	1.75328
12.000	-5.00000	2052.45539	177.51393	1065.40637	1.30423	1.28732	1.28732	1.25597	1.82222	1.79223	1.75462
14.000	-5.00000	2054.13220	177.65454	1065.25092	1.30821	1.28435	1.28435	1.25792	1.80675	1.78475	1.75442
16.000	-5.00000	2055.24664	177.75452	1065.85094	1.31783	1.29230	1.29230	1.26420	1.80407	1.78485	1.75338
18.000	-5.00000	2055.50336	177.81194	1067.19557	1.31783	1.30025	1.30025	1.27624	1.79785	1.77684	1.74829
20.000	-5.00000	2055.49169	177.77533	1066.98185	1.33152	1.31416	1.31416	1.29262	1.79948	1.77682	1.75327
22.000	-5.00000	2055.36655	177.76571	1065.91809	1.33493	1.31651	1.31651	1.29159	1.77966	1.75903	1.7653
24.000	-5.00000	2055.59188	177.85969	1067.54214	1.38469	1.36648	1.36648	1.33429	1.65171	1.62991	1.59456
GRADIENT	.00000	-1.15373	-1.03317	-1.07902	-1.00013	.00059	.00059	.00050	-1.00186	-1.00095	-1.00103

RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
.000	-5.00000	1499.56390	87.64465	659.62552	1.33085	1.31138	1.31138	1.23850	1.95540	1.93072	1.83939
2.000	-5.00000	1497.87276	87.60338	659.31491	1.32888	1.31107	1.31107	1.23969	1.95433	1.93175	1.84222
4.000	-5.00000	1497.09436	87.55775	659.97150	1.33355	1.31694	1.31694	1.25191	1.94282	1.92189	1.84273
6.000	-5.00000	1497.75047	87.59612	659.26024	1.33557	1.32156	1.32156	1.26231	1.94719	1.92348	1.85532
8.000	-5.00000	1497.54230	87.60144	659.30032	1.34085	1.32691	1.32691	1.27393	1.93555	1.91815	1.85217
10.000	-5.00000	1497.81511	87.59321	659.22880	1.34694	1.33128	1.33128	1.28064	1.93259	1.91300	1.85011
12.000	-5.00000	1497.81754	87.59329	659.22856	1.34647	1.32823	1.32823	1.26726	1.90710	1.89453	1.83412
14.000	-5.00000	1497.76596	87.59754	659.27169	1.35763	1.33762	1.33762	1.30235	1.90770	1.88301	1.83973
16.000	-5.00000	1497.77367	87.59656	659.26350	1.36537	1.34369	1.34369	1.31039	1.90614	1.87947	1.83974
18.000	-5.00000	1497.77548	87.59638	659.26370	1.37446	1.35185	1.35185	1.32034	1.90007	1.87243	1.83404
20.000	-5.00000	1497.79357	87.59782	659.27309	1.39528	1.36130	1.36130	1.32940	1.90794	1.87850	1.83973
22.000	-5.00000	1497.81293	87.59903	659.28218	1.39630	1.37275	1.37275	1.34110	1.90276	1.87412	1.83580
24.000	-5.00000	1497.82393	87.59925	659.28389	1.42586	1.38355	1.38355	1.35270	1.89590	1.85804	1.82223
GRADIENT	.00000	-1.36733	-1.02172	-1.16350	.00067	.00139	.00139	.00335	-1.00315	-1.00221	-1.00233

(EE7X03) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
	.000	-5.00000	1933.56339	51.10074	565.22348	1.45958	1.43543	1.31665	2.22833	2.19908	2.03674
	2.000	-5.00000	1933.15035	51.09178	565.12438	1.46360	1.44172	1.33607	2.23032	2.20080	2.05183
	4.000	-5.00000	1935.07675	51.11307	565.35988	1.46702	1.44687	1.34559	2.22696	2.19943	2.06615
	6.000	-5.00000	1936.50783	51.12492	565.48977	1.46989	1.44978	1.35871	2.23356	2.20544	2.08475
	8.000	-5.00000	1938.47931	51.12357	565.47600	1.47544	1.45367	1.37585	2.22832	2.19203	2.08475
	10.000	-5.00000	1936.30977	51.12127	565.45056	1.48383	1.45769	1.39392	2.21255	2.17778	2.08057
	12.000	-5.00000	1936.05462	51.11145	565.34191	1.49210	1.46031	1.39455	2.18451	2.16451	2.07813
	14.000	-5.00000	1935.75789	51.09733	565.18574	1.49889	1.46333	1.40531	2.15674	2.14889	2.07376
	16.000	-5.00000	1935.34929	51.08156	565.01133	1.50555	1.46809	1.41448	2.12205	2.14113	2.06953
	18.000	-5.00000	1935.29330	51.07934	564.98677	1.52282	1.48005	1.42503	2.06821	2.12635	2.05333
	20.000	-5.00000	1934.35158	51.05957	564.76923	1.53220	1.48900	1.43252	2.18211	2.12635	2.05333
	22.000	-5.00000	1934.81853	51.05533	564.34459	1.54490	1.50342	1.44376	2.17697	2.12251	2.04777
	24.000	-5.00000	1934.05480	51.04761	564.63582	1.55375	1.51317	1.45625	2.17137	2.11564	2.04777
GRADIENT		.00000	.12834	.03308	.03410	.00211	.00278	.00748	.00016	.00109	.00735

MACH = 3.500	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
	.000	-5.00000	2547.37308	33.35888	508.50840	1.51818	1.48768	1.33085	2.40634	2.35957	2.14186
	2.000	-5.00000	2547.81793	33.37489	508.70000	1.52665	1.49642	1.33932	2.40452	2.36205	2.15385
	4.000	-5.00000	2546.94196	33.35374	508.53317	1.53374	1.50308	1.37663	2.40554	2.36750	2.15551
	6.000	-5.00000	2547.50005	33.37128	508.64510	1.53498	1.50192	1.38556	2.39367	2.34910	2.18755
	8.000	-5.00000	2547.17203	33.35708	508.59098	1.54277	1.50678	1.40378	2.40151	2.35132	2.20914
	10.000	-5.00000	2551.35157	33.42093	509.40276	1.55112	1.50804	1.41155	2.38176	2.32144	2.13283
	12.000	-5.00000	2556.54724	33.47840	510.26735	1.56031	1.51289	1.42038	2.39120	2.32523	2.21159
	14.000	-5.00000	2562.82321	33.51923	510.89751	1.57193	1.51857	1.43173	2.37539	2.32650	2.22130
	16.000	-5.00000	2563.65443	33.58292	511.87093	1.58269	1.52420	1.44917	2.36553	2.29734	2.15556
	18.000	-5.00000	2567.71115	33.63502	512.67739	1.59359	1.53258	1.45553	2.35200	2.27150	2.15227
	20.000	-5.00000	2572.39271	33.69739	513.51562	1.61384	1.54333	1.47317	2.34201	2.26352	2.18175
	22.000	-5.00000	2578.11011	33.77192	514.75153	1.61823	1.55944	1.47869	2.33539	2.25029	2.15770
	24.000	-5.00000	2578.93777	33.78332	514.92329	1.63271	1.57576	1.49549	2.33539	2.27641	2.17300
GRADIENT		.00000	-.10779	-.00123	-.01860	.00309	.00385	.01046	.00205	.00203	.01119

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7X04) (02 AUG 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	R	QCOMP	M1	M2	M3	M23	M33
1.550	0.000	-2.0000	157.47615	398.93030	1039.23260	1.04437	1.03922	1.39564	1.38032	1.37023
2.000	0.000	-2.0000	157.39516	399.70513	1038.90645	1.04347	1.03602	1.37692	1.36826	1.36326
4.000	0.000	-2.0000	157.30997	399.48754	1038.32949	1.04683	1.03990	1.37142	1.36429	1.35823
5.000	0.000	-2.0000	157.25761	399.63270	1038.69546	1.05286	1.04689	1.36955	1.36232	1.35532
9.000	0.000	-2.0000	157.19330	399.81203	1039.18500	1.05232	1.05759	1.37334	1.36735	1.36137
10.000	0.000	-2.0000	157.16456	399.98485	1039.37476	1.05812	1.06394	1.37359	1.36827	1.36307
12.000	0.000	-2.0000	157.16332	399.93706	1039.51079	1.07315	1.06964	1.37575	1.37111	1.36693
14.000	0.000	-2.0000	157.19388	399.87534	1039.34988	1.04245	1.07718	1.36964	1.36526	1.36122
16.000	0.000	-2.0000	157.34928	399.96065	1039.83284	1.08825	1.08585	1.36625	1.36352	1.36074
18.000	0.000	-2.0000	157.54223	399.90559	1039.84586	1.03844	1.03836	1.36715	1.36523	1.36324
20.000	0.000	-2.0000	157.16429	399.75149	1039.55374	1.06449	1.06444	1.37332	1.37132	1.36932
22.000	0.000	-2.0000	157.16391	399.78766	1039.59332	1.1324	1.10361	1.37876	1.37596	1.37316
24.000	0.000	-2.0000	157.16394	399.94400	1039.52890	1.12229	1.11879	1.38766	1.38339	1.37919
GRADIENT						0.0061	0.0017	0.0355	0.0401	0.0300

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	R	QCOMP	M1	M2	M3	M23	M33
1.750	0.000	-2.0000	150.91153	310.07685	1067.69946	1.10169	1.09123	1.50059	1.48320	1.46561
2.000	0.000	-2.0000	150.84775	310.44413	1068.98416	1.10761	1.0944	1.49824	1.48357	1.46734
4.000	0.000	-2.0000	150.65585	310.63159	1069.60992	1.10677	1.09529	1.49654	1.48434	1.4745
6.000	0.000	-2.0000	150.43929	310.72412	1069.92824	1.11001	1.10202	1.49384	1.48515	1.47680
8.000	0.000	-2.0000	150.37341	310.62094	1069.57295	1.11176	1.10978	1.49465	1.48534	1.47619
10.000	0.000	-2.0000	150.31114	310.72321	1069.92749	1.12621	1.12446	1.49746	1.48739	1.47820
12.000	0.000	-2.0000	150.30287	310.90964	1070.55705	1.13524	1.12897	1.49734	1.48734	1.47819
14.000	0.000	-2.0000	150.30287	310.90964	1070.55705	1.13524	1.12897	1.49734	1.48734	1.47819
16.000	0.000	-2.0000	150.30287	310.90964	1070.55705	1.13524	1.12897	1.49734	1.48734	1.47819
18.000	0.000	-2.0000	150.30287	310.90964	1070.55705	1.13524	1.12897	1.49734	1.48734	1.47819
20.000	0.000	-2.0000	150.30287	310.90964	1070.55705	1.13524	1.12897	1.49734	1.48734	1.47819
22.000	0.000	-2.0000	150.30287	310.90964	1070.55705	1.13524	1.12897	1.49734	1.48734	1.47819
24.000	0.000	-2.0000	150.30287	310.90964	1070.55705	1.13524	1.12897	1.49734	1.48734	1.47819
GRADIENT						0.0127	0.0101	0.0311	0.0123	0.0099

TABULATED DATA - 0A161 (ARC 11-97-87-09+)

ARC 11-97-87-09+ 0A161 ORBITER + RAKES

(EETX04) (02 AUG 75)

REFERENCE DATA

SPEF = 2590.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -2.170

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
	.000	-2.00000	18+5.93+43	235.90358	109+696+9	1.19766	1.17789	1.14057	1.70979	1.56433	1.64288
	2.000	-2.00000	18+6.478+2	235.83478	109+377+3	1.20135	1.18282	1.14142	1.70496	1.68313	1.63491
	4.000	-2.00000	18+6.478+2	235.84348	109+417+3	1.20614	1.18918	1.14770	1.70012	1.68917	1.63194
	6.000	-2.00000	18+7.018+9	235.91540	109+751+3	1.21466	1.19824	1.16433	1.69529	1.67580	1.63739
	8.000	-2.00000	18+6.932+8	235.91268	109+738+5	1.22060	1.20419	1.17658	1.69748	1.67821	1.64512
	10.000	-2.00000	18+6.950+9	235.91120	109+731+9	1.22586	1.21216	1.18753	1.69857	1.68251	1.65322
	12.000	-2.00000	18+6.649+6	235.86971	109+539+4	1.23107	1.21912	1.19507	1.69284	1.67897	1.65207
	14.000	-2.00000	18+6.591+6	235.85956	109+492+9	1.24350	1.23159	1.21893	1.69357	1.67571	1.65295
	16.000	-2.00000	18+7.179+9	235.94132	109+671+1	1.25925	1.24788	1.23069	1.68912	1.67492	1.65505
	18.000	-2.00000	18+6.848+7	235.83649	109+663+2	1.26250	1.25185	1.23646	1.68506	1.67372	1.65593
	20.000	-2.00000	18+6.814+1	235.89847	109+526+3	1.27632	1.26453	1.24242	1.69255	1.67893	1.65142
	22.000	-2.00000	18+7.355+1	235.95847	109+951+3	1.28407	1.27037	1.24542	1.69396	1.67882	1.64940
	24.000	-2.00000	18+6.022+6	235.78710	109+155+9	1.30250	1.29023	1.26230	1.69735	1.69320	1.65115
GRADIENT		.00000	-1.11399	-0.01502	-0.06971	.00212	.00283	.00178	-.00242	-.00157	-.00274

MACH = 2.250	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
	.000	-2.00000	2060.32037	178.19294	1069.482+5	1.34957	1.31859	1.25506	1.96235	1.92323	1.84388
	2.000	-2.00000	2059.99480	178.16426	1069.310+3	1.35597	1.32596	1.26548	1.95611	1.91698	1.84358
	4.000	-2.00000	2059.95003	178.12785	1069.091+1	1.35803	1.33063	1.27255	1.95555	1.92204	1.84385
	6.000	-2.00000	2060.01712	178.16592	1069.32610	1.35017	1.33283	1.28182	1.95307	1.91877	1.85505
	8.000	-2.00000	2060.34868	178.19534	1069.43667	1.36636	1.34090	1.29336	1.95026	1.91842	1.85388
	10.000	-2.00000	2060.24549	178.18648	1069.44347	1.37236	1.34850	1.30412	1.94633	1.91671	1.85153
	12.000	-2.00000	2060.24661	178.18653	1069.44377	1.37622	1.35573	1.31744	1.93832	1.91257	1.85559
	14.000	-2.00000	2061.47952	178.20613	1069.56143	1.37710	1.35768	1.32472	1.92756	1.90365	1.86299
	16.000	-2.00000	2060.56393	178.21377	1069.60732	1.39516	1.36761	1.33764	1.92458	1.90164	1.86509
	18.000	-2.00000	2060.03516	178.16944	1069.33524	1.39590	1.37794	1.35053	1.92315	1.90110	1.86750
	20.000	-2.00000	2060.44746	178.20315	1069.54353	1.42597	1.37917	1.34821	1.93324	1.89159	1.84406
	22.000	-2.00000	2060.15353	178.17854	1069.39586	1.43113	1.41172	1.37395	1.96295	1.93304	1.88273
	24.000	-2.00000	2060.04495	178.16928	1069.34226	1.44782	1.42845	1.39979	1.96033	1.93574	1.88232
GRADIENT		.00000	-1.19209	-0.01627	-0.09767	.00213	.00301	.00440	-.00145	-.00050	-.00149

ARC 11-97-87-09+ 0A161 ORBITER + RAKES

(EE7X0+) (02 AUG 78)

REFERENCE DATA

CREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	P
	.000	-2.00000	1497.77222	87.59769	659.27209	1.36874	1.33342	1.24808	2.05123	2.00534	.95999
	2.000	-2.00000	1497.76450	87.59732	659.26928	1.37048	1.33627	1.25402	2.04131	1.99704	.99202
	4.000	-2.00000	1497.75714	87.59741	659.27001	1.37605	1.34341	1.26694	2.04138	1.99221	1.90159
	6.000	-2.00000	1497.74226	87.59619	659.26091	1.39202	1.35236	1.28340	2.03421	1.99605	1.97827
	8.000	-2.00000	1497.75372	87.53622	659.26557	1.39708	1.35963	1.29497	2.03557	2.00031	1.91798
	10.000	-2.00000	1497.67010	87.59167	659.22676	1.39384	1.35771	1.30653	2.02015	1.98885	1.92963
	12.000	-2.00000	1498.01534	87.51135	659.37941	1.39488	1.37141	1.32001	2.01948	1.99598	1.92453
	14.000	-2.00000	1494.68498	87.41497	657.89593	1.40063	1.37784	1.33392	2.01187	1.98217	1.92693
	16.000	-2.00000	1494.50895	87.41100	657.86705	1.40588	1.38407	1.34400	1.99737	1.96961	1.91845
	18.000	-2.00000	1495.09078	87.43912	658.07867	1.41592	1.39372	1.35564	1.99539	1.96756	1.92005
	20.000	-2.00000	1494.25939	87.38984	657.70778	1.42676	1.40411	1.36749	1.99525	1.96706	1.92154
	22.000	-2.00000	1494.70457	87.41660	657.90315	1.43299	1.41027	1.37613	1.99559	1.97033	1.92791
	24.000	-2.00000	1494.94550	87.43099	658.01747	1.44770	1.42608	1.38987	1.99264	1.96505	1.92139
GRADIENT		.03000	-.00127	-.00007	-.00052	.00183	-.00250	.00471	-.00246	-.00153	-.00140

MACH = 3.000

ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	P
.000	-2.00000	1942.79845	51.29598	567.38300	1.52349	1.46831	1.32827	2.37538	2.29885	.95999
2.000	-2.00000	1939.95528	51.22303	566.57606	1.53031	1.47753	1.34458	2.37925	2.30600	2.12.09
4.000	-2.00000	1937.25540	51.15163	565.78629	1.52825	1.47800	1.35198	2.35354	2.26437	2.11322
6.000	-2.00000	1932.91018	51.02006	564.33104	1.53534	1.48916	1.38107	2.36414	2.30050	2.15315
8.000	-2.00000	1931.75623	51.01216	564.24371	1.53500	1.49297	1.38927	2.38859	2.28118	2.14094
10.000	-2.00000	1932.19312	51.02143	564.34621	1.54132	1.50349	1.40631	2.33857	2.28709	2.15581
12.000	-2.00000	1932.51784	51.02798	564.41837	1.54086	1.50798	1.42221	2.31477	2.27032	2.15524
14.000	-2.00000	1931.30788	50.98654	563.96030	1.54779	1.51392	1.44209	2.31496	2.26929	2.17307
16.000	-2.00000	1932.10713	51.00635	564.17945	1.55891	1.52339	1.45824	2.31668	2.26836	2.18196
18.000	-2.00000	1931.43526	50.99356	564.00479	1.55584	1.52814	1.46578	2.30327	2.25302	2.17036
20.000	-2.00000	1931.86759	50.99794	564.08523	1.57845	1.53952	1.47774	2.32954	2.2593	2.17514
22.000	-2.00000	1932.01346	51.00587	564.17412	1.58298	1.54365	1.48469	2.28407	2.24216	2.16475
24.000	-2.00000	1931.72912	50.99929	564.10132	1.58809	1.54976	1.49315	2.28126	2.23099	2.15715
GRADIENT		-.03000	-.03609	-.39918	.00121	-.00242	.00593	-.00545	-.00362	-.00148

(EE7X04) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SPEF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
3.500	.000	-2.00000	2602.07135	34.16512	520.74471	1.61787	1.54313	1.35262	2.59765	2.48952	2.21875
2.000	2.000	-2.00000	2605.47937	34.18432	521.03742	1.62079	1.55278	1.35825	2.60185	2.50339	2.24060
4.000	4.000	-2.00000	2610.52899	34.19799	521.24570	1.61999	1.55831	1.36906	2.57972	2.49247	2.25119
6.000	6.000	-2.00000	2614.11072	34.24500	521.96236	1.62520	1.56875	1.42339	2.58477	2.50360	2.29710
8.000	8.000	-2.00000	2614.27722	34.24722	521.99606	1.62717	1.57750	1.43663	2.57224	2.50116	2.30173
10.000	10.000	-2.00000	2619.19357	34.31230	522.96805	1.62789	1.58309	1.45316	2.56855	2.50452	2.32055
12.000	12.000	-2.00000	2615.71823	34.26563	522.27669	1.63516	1.59324	1.48134	2.55052	2.48972	2.33383
14.000	14.000	-2.00000	2617.88397	34.29432	522.71407	1.64059	1.59512	1.49857	2.54155	2.47749	2.34245
16.000	16.000	-2.00000	2615.78174	34.26626	522.28640	1.64147	1.59237	1.50560	2.51157	2.44313	2.32304
18.000	18.000	-2.00000	2617.10403	34.28431	522.56139	1.63442	1.59958	1.51584	2.49781	2.42484	2.30959
20.000	20.000	-2.00000	2615.61575	34.26406	522.25275	1.62861	1.60734	1.52497	2.50134	2.42524	2.31257
22.000	22.000	-2.00000	2619.49899	34.31592	523.04321	1.65975	1.61431	1.53246	2.49061	2.41477	2.30352
24.000	24.000	-2.00000	2624.04565	34.37497	523.94369	1.67401	1.61764	1.53960	2.48129	2.40457	2.29900
GRADIENT	.00000	.00822	.61442	.00822	.12524	.00053	.00405	.00811	-.00448	.00074	.00841

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7X05) (02 AUG 76)

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
.600	.0000	.0000	2633.13434	2067.16983	568.96451	.56182	.56196	.56155	.64303	.64315	.64279
.800	.0000	.0000	2636.45282	2067.42532	569.02750	.56009	.56008	.56002	.63811	.63810	.63804
2.000	.0000	.0000	2638.36844	2069.84036	569.52808	.56048	.56058	.56045	.63887	.63886	.63884
4.000	.0000	.0000	2635.83572	2067.24514	568.79059	.55601	.55624	.55661	.63214	.63234	.63267
6.000	.0000	.0000	2635.20316	2067.24875	568.95142	.55944	.55910	.55925	.63383	.63352	.63366
8.000	.0000	.0000	2635.93454	2067.14458	568.83335	.56347	.56388	.56312	.63319	.63355	.63287
10.000	.0000	.0000	2635.46613	2065.78952	568.67661	.56682	.56671	.56687	.63474	.63464	.63479
12.000	.0000	.0000	2635.11768	2067.19876	568.91891	.57761	.57722	.57766	.63889	.63853	.63894
14.000	.0000	.0000	2635.08533	2067.16296	568.92236	.58042	.58001	.58017	.64145	.64108	.64122
16.000	.0000	.0000	2638.61063	2068.93408	569.61655	.60188	.60221	.60184	.65010	.65041	.65006
18.000	.0000	.0000	2634.47891	2065.12332	568.35559	.61343	.61434	.61314	.65599	.65585	.65572
20.000	.0000	.0000	2640.10631	2062.55417	567.55264	.62511	.62615	.62335	.66110	.66209	.65942
22.000	.0000	.0000	2629.67941	2061.72964	567.94977	.64025	.64222	.63671	.66779	.66965	.66433
24.000	.0000	.0000	2629.67941	2061.72964	567.94977	.64025	.64222	.63671	.66779	.66965	.66433
GRADIENT			.55853	.41762	.14089	-.00034	-.00034	-.00027	-.00104	-.00105	-.00099

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
.900	.0000	.0000	2113.98108	1249.92923	864.05185	.74844	.74890	.74879	.91433	.91472	.91463
.000	.0000	.0000	2112.05286	1248.77386	863.27899	.74372	.74364	.74379	.89849	.89843	.89856
2.000	.0000	.0000	2118.18839	1252.35219	865.83621	.74698	.74637	.74636	.89401	.89347	.89347
4.000	.0000	.0000	2114.64374	1253.29912	864.34464	.74455	.74452	.74413	.88253	.88250	.88217
6.000	.0000	.0000	2110.03122	1247.57364	862.45758	.74396	.74315	.74304	.87611	.87540	.87531
8.000	.0000	.0000	2112.73351	1249.11789	863.61572	.75172	.75125	.75143	.87485	.87443	.87459
10.000	.0000	.0000	2114.53933	1250.25994	864.43939	.75871	.75887	.75908	.87425	.87440	.87459
12.000	.0000	.0000	2117.13947	1251.72624	865.41324	.77144	.77144	.77108	.87592	.87609	.87576
14.000	.0000	.0000	2116.02139	1251.05811	864.96329	.78420	.78457	.78431	.87680	.87714	.87690
16.000	.0000	.0000	2113.29510	1249.47339	863.82172	.79749	.79809	.79791	.88269	.88325	.88308
18.000	.0000	.0000	2111.35150	1248.25095	863.10052	.81363	.81446	.81369	.88221	.88298	.88225
20.000	.0000	.0000	2110.78241	1247.85742	862.92499	.83398	.83522	.83320	.90147	.90264	.90074
22.000	.0000	.0000	2110.78241	1247.85742	862.92499	.83398	.83522	.83320	.90147	.90264	.90074
24.000	.0000	.0000	2113.14268	1249.38358	863.75931	.85711	.85917	.85460	.91139	.91335	.90839
GRADIENT			1.05184	.60574	.44609	-.00061	-.00088	-.00086	-.00508	-.00531	-.00529

(EE7X05) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .008
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-85%)

ARC 11-97-87-09% 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8080 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
1.200	.000	.00000	2003.78401	828.63679	1156.30751	.86763	.86755	.86707	1.05118	1.05111	1.05059
2.000	.000	.00000	2006.93002	827.95351	1165.34581	.87108	.87068	.86987	1.04087	1.04051	1.03979
4.000	.000	.00000	2008.95340	827.74990	1165.05922	.87098	.87058	.86983	1.02789	1.02744	1.02686
6.000	.000	.00000	2012.21327	829.46896	1167.47879	.87518	.87585	.87328	1.02954	1.02925	1.02874
8.000	.000	.00000	2011.68602	823.32532	1167.27747	.87747	.87770	.87716	1.02769	1.02790	1.02741
10.000	.000	.00000	2012.05740	823.42208	1167.41281	.88341	.88383	.88317	1.03984	1.04021	1.03963
12.000	.000	.00000	2012.69560	829.63939	1167.71867	.88959	.88985	.88933	1.06678	1.06674	1.06627
14.000	.000	.00000	2012.78661	829.69245	1167.79337	.89479	.89495	.89418	1.08439	1.08431	1.08341
16.000	.000	.00000	2011.04118	829.14474	1167.02466	.90940	.90920	.90847	1.09240	1.09243	1.09157
18.000	.000	.00000	2012.20630	829.51370	1167.54176	.92846	.92880	.92810	1.10937	1.10937	1.10873
20.000	.000	.00000	2018.50417	831.53033	1170.38017	.94437	.94498	.94387	1.12139	1.12196	1.12233
22.000	.000	.00000	2017.94966	831.40863	1170.20888	.96029	.96127	.95972	1.13424	1.13515	1.13340
24.000	.000	.00000	2014.63448	830.32520	1168.68396	.97779	.97943	.97679	1.15621	1.15777	1.15626
GRADIENT			.77729	-.22172	-.31207	.00084	.00073	.00069	-.00582	-.00592	-.00596

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
1.480	.000	.00000	2043.25799	642.23148	1315.08347	.95763	.95310	.95260	1.23926	1.23938	1.23452
2.000	.000	.00000	2048.25000	643.57886	1318.84294	.96818	.96473	.96499	1.23161	1.22834	1.22856
4.000	.000	.00000	2046.36710	643.02779	1317.71530	.96838	.96563	.96522	1.23018	1.22758	1.22719
6.000	.000	.00000	2036.68442	640.56650	1312.67154	.97023	.96632	.96486	1.22638	1.22267	1.22128
8.000	.000	.00000	2036.48167	640.58581	1312.71315	.97638	.97362	.97030	1.23126	1.22863	1.22547
10.000	.000	.00000	2037.05380	640.77697	1313.10286	.97971	.97971	.97932	1.23571	1.23303	1.23266
12.000	.000	.00000	2032.87712	639.62427	1310.74069	.98250	.98624	.98748	1.23942	1.23619	1.23738
14.000	.000	.00000	2034.53185	640.07636	1311.66714	.98748	.98748	.98812	1.24712	1.24418	1.24480
16.000	.000	.00000	2038.71129	641.14881	1313.86484	.99051	.98851	.99921	1.25354	1.25083	1.25142
18.000	.000	.00000	2034.89371	640.10445	1311.72469	1.01924	1.01633	1.01502	1.26226	1.25939	1.25811
20.000	.000	.00000	2029.02079	638.64844	1308.74098	1.02838	1.02552	1.02301	1.27171	1.26887	1.26637
22.000	.000	.00000	2029.79141	638.90320	1309.26305	1.04318	1.04036	1.04011	1.27942	1.27659	1.27634
24.000	.000	.00000	2028.09665	638.46732	1308.36984	1.05429	1.05181	1.05172	1.28293	1.28044	1.28035
GRADIENT			.77729	.19908	.40796	.00269	.00313	.00316	-.00227	-.00185	-.00183

(EE7X05) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-57-87-094)

ARC 11-57-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDELAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
0.000	0.000	0.0000	1580.54595	401.10618	1045.16287	1.07387	1.06859	1.05898	1.41333	1.40778	1.39772
2.000	0.000	0.0000	1591.96228	401.46997	1046.11082	1.07485	1.06626	1.06088	1.40600	1.39699	1.39139
4.000	0.000	0.0000	1581.60306	401.35976	1045.84969	1.07575	1.06796	1.06194	1.40522	1.39705	1.39076
6.000	0.000	0.0000	1581.71835	401.39628	1045.91879	1.08153	1.07568	1.06779	1.39807	1.39294	1.38469
8.000	0.000	0.0000	1582.28792	401.54744	1045.31267	1.09108	1.08641	1.07714	1.40422	1.39932	1.38958
10.000	0.000	0.0000	1584.01578	401.96475	1047.40005	1.09325	1.08935	1.08018	1.40374	1.39954	1.39001
12.000	0.000	0.0000	1584.74577	402.14309	1047.86478	1.09788	1.09390	1.08608	1.40526	1.40107	1.39295
14.000	0.000	0.0000	1584.30254	402.03269	1047.57710	1.10665	1.10371	1.09643	1.41086	1.40774	1.40005
16.000	0.000	0.0000	1584.53708	402.09357	1047.73572	1.11533	1.11233	1.10590	1.41326	1.41007	1.40328
18.000	0.000	0.0000	1585.24220	402.26379	1048.17926	1.12503	1.12152	1.11367	1.41064	1.40597	1.39757
20.000	0.000	0.0000	1585.26317	402.27295	1048.20312	1.13055	1.12684	1.12118	1.40791	1.40398	1.39800
22.000	0.000	0.0000	1584.67165	402.12355	1047.91384	1.13852	1.13538	1.13077	1.41580	1.41090	1.41090
24.000	0.000	0.0000	1584.25276	402.01530	1047.53178	1.15099	1.14708	1.13843	1.42773	1.42356	1.41436
GRADIENT			.26428	.06590	.17171	.00047	-.00016	.00074	-.00203	-.00268	-.00174

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
0.000	0.000	0.0000	1637.74609	311.37225	1072.15997	1.13130	1.12038	1.09888	1.54147	1.52956	1.50568
2.000	0.000	0.0000	1657.99976	311.41864	1072.31970	1.13449	1.12142	1.09864	1.52949	1.51506	1.49812
4.000	0.000	0.0000	1657.20347	311.27179	1071.81404	1.13436	1.12227	1.09877	1.52787	1.51452	1.48881
6.000	0.000	0.0000	1656.47335	311.13422	1071.34035	1.13944	1.13043	1.09997	1.53014	1.52128	1.49881
8.000	0.000	0.0000	1657.27576	311.28435	1071.85733	1.14848	1.13984	1.12123	1.52607	1.51542	1.49611
10.000	0.000	0.0000	1657.32759	311.29222	1071.88681	1.15517	1.14795	1.12123	1.52632	1.51835	1.50095
12.000	0.000	0.0000	1656.50393	311.14009	1071.36053	1.16351	1.15574	1.13212	1.53072	1.52002	1.50810
14.000	0.000	0.0000	1657.07523	311.24621	1071.72598	1.17347	1.16680	1.15521	1.52798	1.52062	1.50786
16.000	0.000	0.0000	1656.60455	311.15863	1071.24611	1.18067	1.17457	1.16366	1.53585	1.52910	1.51993
18.000	0.000	0.0000	1656.32849	311.10677	1071.24582	1.18991	1.17639	1.16588	1.53574	1.52742	1.51103
20.000	0.000	0.0000	1656.80373	311.19492	1071.54903	1.19398	1.18650	1.16973	1.54047	1.53218	1.51359
22.000	0.000	0.0000	1657.27647	311.29266	1071.85149	1.20871	1.20178	1.18523	1.54681	1.53913	1.52085
24.000	0.000	0.0000	1657.16254	311.26139	1071.77823	1.21717	1.21054	1.19236	1.55226	1.54491	1.52482
GRADIENT			-.13443	-.02512	-.08649	.00077	.00047	-.00003	-.00340	-.00371	-.00422

(EE7X05.) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1075.6880 IN. XQ
LREF = 474.8000 IN. YMRP = .0800 IN. YO
BREF = 930.6000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000

ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
.000	.00000	1847.14075	235.84824	1094.43971	1.23253	1.20947	1.17283	1.75217	1.72461	1.68128
2.000	.00000	1846.77534	235.80084	1094.21881	1.23476	1.21604	1.17829	1.75307	1.73069	1.68598
4.000	.00000	1847.06482	235.83535	1094.37987	1.24077	1.22866	1.18749	1.74769	1.72811	1.68455
6.000	.00000	1846.70287	235.79072	1094.17278	1.24703	1.23806	1.19509	1.74202	1.71950	1.68666
8.000	.00000	1846.84723	235.80916	1094.25836	1.25801	1.23955	1.21004	1.73858	1.71674	1.68206
10.000	.00000	1847.73077	235.93651	1094.84930	1.26844	1.25273	1.22551	1.74282	1.72423	1.69338
12.000	.00000	1847.06197	235.84271	1094.41403	1.27542	1.25470	1.23145	1.74047	1.72366	1.69531
14.000	.00000	1846.76268	235.79362	1094.21408	1.27542	1.26198	1.23829	1.74826	1.73233	1.70441
16.000	.00000	1846.78920	235.81072	1094.26558	1.28415	1.27121	1.25247	1.74973	1.73444	1.71236
18.000	.00000	1846.62433	235.78563	1094.14917	1.29618	1.28304	1.26121	1.74300	1.72754	1.70798
20.000	.00000	1846.86009	235.81953	1094.30549	1.30860	1.29411	1.26667	1.74899	1.73295	1.70096
22.000	.00000	1846.62697	235.81627	1094.29134	1.32515	1.31111	1.28211	1.75789	1.74121	1.70733
24.000	.00000	1845.64973	235.86645	1093.68892	1.34181	1.32815	1.29925	1.75234	1.73541	1.70286
GRADIENT	.00000	-.01898	-.00322	-.01495	.00206	.00330	.00366	-.00112	.00037	.00092

MACH = 2.250

ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
.000	.00000	2059.62274	178.13523	1069.13588	1.39020	1.31700	1.25264	1.97275	1.93068	1.85003
2.000	.00000	2059.68022	178.14101	1069.17059	1.35703	1.32452	1.26382	1.96595	1.92492	1.84985
4.000	.00000	2059.24142	178.10249	1068.93941	1.36437	1.36222	1.27748	1.95920	1.92310	1.85002
6.000	.00000	2059.67896	178.13995	1069.16425	1.36883	1.35959	1.28799	1.95574	1.91854	1.83494
8.000	.00000	2059.63347	178.13554	1069.14375	1.37309	1.34588	1.29527	1.95114	1.91716	1.83446
10.000	.00000	2059.11798	178.09175	1068.87497	1.38034	1.35444	1.31080	1.95158	1.91931	1.85529
12.000	.00000	2058.74341	178.05964	1068.68224	1.38636	1.36449	1.32389	1.94875	1.92158	1.87148
14.000	.00000	2059.55393	178.11281	1069.09737	1.39041	1.37078	1.34344	1.94077	1.91648	1.87160
16.000	.00000	2059.36752	178.11318	1069.00357	1.39737	1.37788	1.35552	1.93695	1.91292	1.87319
18.000	.00000	2058.83990	178.06788	1068.73170	1.40744	1.38699	1.36599	1.94068	1.91552	1.87497
20.000	.00000	2058.20343	178.09903	1068.91862	1.40847	1.38791	1.34779	1.92024	1.89516	1.84644
22.000	.00000	2058.94348	178.07670	1068.78462	1.44555	1.42488	1.38208	1.92332	1.89570	1.91485
24.000	.00000	2058.85312	178.06838	1068.73825	1.44576	1.42379	1.38332	1.73478	1.70341	1.66292
GRADIENT	.00000	-.09532	-.00818	-.04911	.00369	.00490	.00621	-.00339	-.00189	-.00000

(EE7X05) (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .096
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.6000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
2.500	.000	.00000	1495.02940	87.42978	658.00838	1.39484	1.35280	1.26689	2.08197	2.02717	1.91671
2.000	.000	.00000	1495.07198	87.43218	658.02643	1.39982	1.35070	1.27501	2.08242	2.03149	1.92136
4.000	.000	.00000	1494.35016	87.38912	657.70238	1.40709	1.37154	1.29222	2.07944	2.03331	1.93153
6.000	.000	.00000	1494.94654	87.42504	657.97271	1.41301	1.37852	1.30869	2.07648	2.03186	1.94240
8.000	.000	.00000	1495.11034	87.43490	658.04689	1.41974	1.38509	1.31898	2.07486	2.03143	1.94551
10.000	.000	.00000	1494.33298	87.38847	657.69749	1.42502	1.39407	1.32918	2.07278	2.03294	1.95011
12.000	.000	.00000	1494.98553	87.42791	657.99431	1.43253	1.40475	1.34960	2.07241	2.03675	1.95642
14.000	.000	.00000	1494.32795	87.38815	657.69506	1.44213	1.41530	1.36607	2.06105	2.03405	1.97152
16.000	.000	.00000	1494.99258	87.42212	657.95069	1.44556	1.41824	1.37332	2.06105	2.02628	1.96944
18.000	.000	.00000	1494.35973	87.39025	657.71090	1.45484	1.42928	1.39005	2.05920	2.02678	1.97604
20.000	.000	.00000	1494.85466	87.41989	657.93397	1.46508	1.44101	1.40245	2.05840	2.03789	1.98922
22.000	.000	.00000	1494.36290	87.39047	657.71252	1.47141	1.44628	1.40794	2.07282	2.04098	1.99262
24.000	.000	.00000	1494.86579	87.42173	657.94775	1.48291	1.45926	1.42186	2.08064	2.05070	2.00356
GRADIENT			-.16992	-.01016	-.07650	.00306	.00469	.00633	-.00063	.00153	-.00371

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
3.000	.000	.00000	1940.57863	51.17667	566.06326	1.54620	1.47638	1.33316	2.43806	2.33209	2.13438
2.000	.000	.00000	1940.33086	51.16886	565.97688	1.55606	1.49225	1.35010	2.45037	2.36048	2.16326
4.000	.000	.00000	1939.42018	51.14571	565.72091	1.56018	1.50187	1.36597	2.44296	2.36113	2.17383
6.000	.000	.00000	1939.65381	51.15674	565.84290	1.56362	1.50795	1.39012	2.43271	2.35496	2.19233
8.000	.000	.00000	1938.91023	51.13770	565.67232	1.56624	1.51270	1.40087	2.40648	2.34076	2.18737
10.000	.000	.00000	1939.71480	51.16037	565.88296	1.57107	1.52137	1.41871	2.40648	2.33789	2.19755
12.000	.000	.00000	1939.09339	51.14639	565.72841	1.58308	1.53942	1.44858	2.41326	2.35312	2.22897
14.000	.000	.00000	1939.37943	51.15133	565.78307	1.59105	1.54890	1.46717	2.41393	2.35602	2.24453
16.000	.000	.00000	1939.79555	51.13805	565.63618	1.59326	1.55158	1.48078	2.40209	2.34511	2.24135
18.000	.000	.00000	1939.37152	51.15323	565.80401	1.59876	1.55843	1.49329	2.39380	2.32914	2.25890
20.000	.000	.00000	1939.61790	51.16009	565.87995	1.61157	1.57157	1.50917	2.39721	2.34301	2.22571
22.000	.000	.00000	1938.60949	51.13827	565.63856	1.60563	1.56530	1.50352	2.36220	2.30811	2.28908
24.000	.000	.00000	1939.35316	51.15332	565.80502	1.63383	1.59357	1.53494	2.42275	2.36817	2.28908
GRADIENT			-.28961	-.00774	-.06559	.00358	.00637	.00820	.00323	.00726	.00966

(EE7X05) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES.

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
3.500	.000	.00000	2639.31985	34.57549	526.99953	1.84506	1.55135	1.35385	2.65736	2.52060	2.23785
2.000	.000	.00000	2640.01666	34.58445	527.13617	1.65123	1.50433	1.36824	2.65364	2.53684	2.25575
4.000	.000	.00000	2640.69986	34.59589	527.31057	1.65694	1.57665	1.39174	2.67288	2.55493	2.26918
6.000	.000	.00000	2644.64435	34.64481	528.05621	1.66111	1.58119	1.42189	2.69886	2.57482	2.31470
8.000	.000	.00000	2645.62357	34.67127	528.45953	1.67458	1.60169	1.44937	2.67401	2.56815	2.30052
10.000	.000	.00000	2646.80231	34.67362	528.49525	1.68205	1.61428	1.47729	2.67499	2.57681	2.30046
12.000	.000	.00000	2647.39554	34.68086	528.60566	1.69227	1.62333	1.50254	2.63910	2.55471	2.30328
14.000	.000	.00000	2652.42508	34.74652	529.60644	1.68804	1.63297	1.52401	2.64468	2.55584	2.41109
16.000	.000	.00000	2653.27376	34.75490	529.73420	1.68624	1.63938	1.54725	2.64160	2.56197	2.43147
18.000	.000	.00000	2653.23250	34.71894	529.18507	1.68220	1.63863	1.55158	2.59770	2.52234	2.40265
20.000	.000	.00000	2651.57233	34.73560	529.43997	1.69561	1.64218	1.56824	2.60172	2.52517	2.40785
22.000	.000	.00000	2652.55411	34.74832	529.53383	1.70083	1.64536	1.56292	2.56034	2.50387	2.38893
24.000	.000	.00000	2651.96234	34.74070	529.51771	1.70331	1.64980	1.56812	2.57778	2.50334	2.39337
GRADIENT		.00000	.39504	.00510	.07776	.00297	.00633	.00947	.00373	.00860	.01283

(EE7X06) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDELAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES.

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SPEF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
1.200	.000	2.0000	2003.55424	828.76637	1166.48990	.90210	.90159	.90140	1.06899	1.06854	1.06836
2.000	.000	2.0000	2008.90266	828.44971	1166.04420	.90523	.90465	.90416	1.05553	1.05560	1.05456
4.000	.000	2.0000	2009.08081	828.45160	1166.04684	.90778	.90756	.90732	1.04845	1.04823	1.04803
6.000	.000	2.0000	2012.43275	829.50759	1167.67390	.90920	.90891	.90848	1.04171	1.04144	1.04105
8.000	.000	2.0000	2012.15788	829.57392	1167.62230	.91190	.91217	.91217	1.04578	1.04503	1.04517
10.000	.000	2.0000	2011.92180	829.36008	1167.32553	.91947	.91902	.91888	1.06501	1.06459	1.06447
12.000	.000	2.0000	2013.54626	829.94349	1168.14247	.92108	.92082	.92057	1.09961	1.09937	1.09814
14.000	.000	2.0000	2015.19850	830.40101	1168.79065	.92939	.92944	.92911	1.11728	1.11732	1.11701
16.000	.000	2.0000	2013.62295	829.94411	1168.14755	.94662	.94678	.94678	1.12023	1.12037	1.12038
18.000	.000	2.0000	2013.23676	829.86232	1168.03244	.96307	.96369	.96339	1.13575	1.13633	1.13605
20.000	.000	2.0000	2017.18563	830.97342	1169.59531	.98156	.98194	.98132	1.15291	1.15317	1.15259
22.000	.000	2.0000	2019.10837	831.85206	1170.93917	.99871	.99871	.99863	1.16537	1.16533	1.16528
24.000	.000	2.0000	2020.01411	832.02087	1171.07362	1.01478	1.01674	1.01479	1.18792	1.18922	1.18792
GRADIENT		.00000	-1.1837	-0.0769	-1.11077	.00142	.00149	.00148	-0.00513	-0.00507	-0.00508

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
1.400	.000	2.0000	2044.20187	642.54803	1316.73218	.99563	.99122	.99149	1.27828	1.27399	1.27424
2.000	.000	2.0000	2046.48904	643.12830	1317.92126	1.00703	1.00256	1.00433	1.27215	1.26776	1.26949
4.000	.000	2.0000	2041.44493	641.78355	1315.16579	1.00683	1.00288	1.00408	1.26294	1.25847	1.25968
6.000	.000	2.0000	2044.57449	642.62668	1316.89333	1.01279	1.00947	1.00773	1.26030	1.25704	1.25834
8.000	.000	2.0000	2040.79563	641.70628	1315.00722	1.01533	1.01199	1.01035	1.26430	1.26101	1.25939
10.000	.000	2.0000	2035.77562	640.44118	1312.41475	1.02243	1.01858	1.01991	1.27321	1.26941	1.27072
12.000	.000	2.0000	2036.94429	640.72521	1312.99680	1.02918	1.02576	1.02766	1.27811	1.27470	1.27659
14.000	.000	2.0000	2039.65597	641.42471	1314.43022	1.02810	1.02457	1.02661	1.28422	1.28071	1.28274
16.000	.000	2.0000	2033.80769	641.40276	1314.38522	1.04198	1.03849	1.03659	1.29763	1.29410	1.29421
18.000	.000	2.0000	2039.32877	641.25414	1314.10118	1.05771	1.05443	1.05215	1.30317	1.30317	1.30387
20.000	.000	2.0000	2033.81595	639.92600	1311.35902	1.05926	1.05601	1.05493	1.31071	1.30741	1.30637
22.000	.000	2.0000	2023.58159	637.19749	1305.76765	1.07155	1.06501	1.06891	1.31966	1.31717	1.31703
24.000	.000	2.0000	2021.60355	636.67937	1304.70592	1.08198	1.07924	1.07889	1.32387	1.32106	1.32070
GRADIENT		.00000	-6.8921	-1.19109	-3.9160	.00280	.00291	.00315	-0.00399	-0.00382	-0.00355

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7X08) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
1.550	.000	2.00000	1563.49995	397.95504	1036.97801	1.08649	1.08049	1.07866	1.41912	1.41278	1.40453
2.000	.000	2.00000	1570.76030	398.53608	1038.46596	1.09198	1.08430	1.07867	1.41572	1.40760	1.40167
4.000	.000	2.00000	1572.20036	398.86619	1039.32613	1.09407	1.08741	1.08122	1.41153	1.40450	1.39798
6.000	.000	2.00000	1573.37077	399.00957	1039.43916	1.09978	1.09448	1.08713	1.40975	1.40416	1.39643
8.000	.000	2.00000	1573.70795	399.25253	1040.33282	1.10405	1.09959	1.09097	1.41482	1.41010	1.40101
10.000	.000	2.00000	1573.65640	399.24512	1040.31351	1.11168	1.10831	1.09972	1.41789	1.41411	1.40503
12.000	.000	2.00000	1572.64693	398.98661	1039.63991	1.12353	1.11983	1.11211	1.41696	1.41304	1.40486
14.000	.000	2.00000	1572.69780	399.00335	1039.67572	1.13102	1.12755	1.12057	1.42682	1.42313	1.41570
16.000	.000	2.00000	1572.12041	398.84943	1039.27986	1.13782	1.13329	1.12621	1.42891	1.42404	1.41645
18.000	.000	2.00000	1571.97598	399.81422	1039.19070	1.14419	1.13908	1.13206	1.43950	1.43404	1.42654
20.000	.000	2.00000	1574.13762	399.36440	1040.62433	1.15016	1.14693	1.14013	1.45611	1.45261	1.44532
22.000	.000	2.00000	1576.42464	399.93516	1042.11156	1.16371	1.16052	1.15227	1.46435	1.46091	1.45202
24.000	.000	2.00000	1576.99555	400.08363	1042.49895	1.17316	1.16953	1.15811	1.46863	1.46363	1.45240
GRADIENT		.00000	.92511	.22529	.58703	.00190	.00173	.00214	.00190	.00207	.00164

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
1.750	.000	2.00000	1656.77100	311.18817	1071.52611	1.15882	1.14724	1.12840	1.57583	1.56282	1.54177
2.000	.000	2.00000	1655.31691	310.91837	1070.59709	1.15724	1.14827	1.12864	1.56805	1.55798	1.53610
4.000	.000	2.00000	1655.46857	310.94656	1070.69418	1.15790	1.14824	1.13018	1.56271	1.55190	1.53190
6.000	.000	2.00000	1655.59386	310.97010	1070.77524	1.16021	1.15573	1.13796	1.55977	1.54917	1.52941
8.000	.000	2.00000	1656.17558	311.07782	1071.14615	1.17033	1.16069	1.14462	1.56005	1.54929	1.53142
10.000	.000	2.00000	1656.23152	311.09952	1071.18300	1.17967	1.17205	1.15703	1.56295	1.55443	1.53771
12.000	.000	2.00000	1656.23276	311.09945	1071.22061	1.18467	1.17723	1.16511	1.56559	1.55726	1.54375
14.000	.000	2.00000	1656.36481	311.11320	1071.26796	1.19413	1.18607	1.17577	1.56830	1.56462	1.54790
16.000	.000	2.00000	1656.64993	311.09056	1070.81123	1.20554	1.19701	1.18313	1.57317	1.56462	1.54914
18.000	.000	2.00000	1656.12835	311.05919	1071.11641	1.21165	1.20189	1.18429	1.58947	1.57847	1.56998
20.000	.000	2.00000	1656.39973	311.11927	1071.28888	1.22822	1.21683	1.19901	1.59957	1.58998	1.58098
22.000	.000	2.00000	1656.98810	311.04332	1071.02734	1.23332	1.22621	1.20798	1.60363	1.59560	1.58511
24.000	.000	2.00000	1655.65131	310.98100	1070.81276	1.24829	1.24272	1.22350	1.59771	1.59145	1.58394
GRADIENT		.00000	-.32563	-.05040	-.20799	-.00023	.00023	.00044	-.00328	-.00273	-.00249

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .030 BDFAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09%)
ARC 11-97-87-09% 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
2.000	.000	2.00000	1845.98238	235.71697	1093.83054	1.26681	1.24017	1.20530	1.78347	1.75252	1.71100
2.000	.000	2.00000	1845.98238	235.68386	1093.67549	1.27012	1.24752	1.21007	1.77901	1.75192	1.70739
4.000	.000	2.00000	1844.79626	235.96110	1093.10722	1.26881	1.24674	1.21161	1.77747	1.75197	1.71020
6.000	.000	2.00000	1844.06950	235.46566	1092.66437	1.27144	1.25117	1.21970	1.78077	1.75645	1.71897
8.000	.000	2.00000	1845.05612	235.59471	1093.26320	1.28199	1.26401	1.23122	1.78395	1.76245	1.72335
10.000	.000	2.00000	1845.94762	235.71702	1093.83081	1.28838	1.27131	1.24358	1.79295	1.77112	1.73873
12.000	.000	2.00000	1845.39353	235.63526	1093.45602	1.30235	1.28610	1.26073	1.79565	1.77653	1.74525
14.000	.000	2.00000	1846.05315	235.72144	1093.85130	1.31455	1.29905	1.27442	1.79714	1.77714	1.74784
16.000	.000	2.00000	1846.19392	235.73932	1093.93427	1.32566	1.31132	1.28825	1.79928	1.78218	1.75475
18.000	.000	2.00000	1846.65709	235.79776	1094.20544	1.33140	1.31593	1.29525	1.79685	1.78444	1.76212
20.000	.000	2.00000	1847.25053	235.88823	1094.62527	1.33717	1.32163	1.29096	1.79873	1.78832	1.76462
22.000	.000	2.00000	1847.20595	235.88139	1094.59354	1.35285	1.33810	1.30732	1.81547	1.79783	1.76137
24.000	.000	2.00000	1846.34912	235.77158	1094.08394	1.37725	1.36166	1.33043	1.82166	1.80318	1.75531
GRADIENT			-2.9551	-0.0397	-1.8083	.00052	.00164	.00158	-.00150	-.00014	-.00021

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
2.250	.000	2.00000	2059.21453	178.10086	1068.92479	1.33909	1.29266	1.23207	1.94066	1.89483	1.81952
2.000	.000	2.00000	2059.05692	178.08647	1068.84325	1.33368	1.29758	1.24017	1.94033	1.89482	1.81952
4.000	.000	2.00000	2059.38257	178.11435	1069.01056	1.34045	1.30883	1.25061	1.93307	1.89350	1.82364
6.000	.000	2.00000	2059.19321	178.08620	1068.91354	1.34883	1.32029	1.26828	1.92880	1.89321	1.82586
8.000	.000	2.00000	2059.07935	178.08638	1068.85469	1.35471	1.32705	1.27752	1.92685	1.89245	1.83137
10.000	.000	2.00000	2059.48304	178.12256	1069.05988	1.36379	1.33802	1.29632	1.92449	1.89379	1.84124
12.000	.000	2.00000	2058.62692	178.04962	1068.62146	1.37136	1.34664	1.30588	1.92629	1.89318	1.84265
14.000	.000	2.00000	2058.07443	178.08793	1068.85205	1.38118	1.35919	1.32048	1.92777	1.89580	1.85127
16.000	.000	2.00000	2058.61598	178.04855	1068.61566	1.38259	1.36202	1.32469	1.92707	1.89545	1.85181
18.000	.000	2.00000	2058.53250	178.04135	1068.57248	1.39306	1.36699	1.32550	1.93299	1.90536	1.85147
20.000	.000	2.00000	2058.52417	178.04055	1068.56763	1.40175	1.37928	1.33517	1.93299	1.90555	1.85147
22.000	.000	2.00000	2058.59705	178.04666	1068.60429	1.40944	1.37858	1.34449	1.91220	1.88555	1.83210
24.000	.000	2.00000	2058.37756	178.02781	1068.49115	1.45932	1.43561	1.39184	2.02914	1.93845	1.94487
GRADIENT			.04193	.00357	.02144	.00284	.00491	.00463	-.00190	-.00033	.00027

TABULATED DATA - 0A161 (ARC 11-97-87-034)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7X06) (02 AUG 76)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 AIRLON =

2.000 ELEVON = .000
 .000 BOFLAP = -7.170

RV/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	BETA	PT	P	OCOMP	M11	M21	M31	M12	M22	M32	M33
ALPHA	2.00000	1487.32057	86.97802	654.60834	1.42284	1.37640	1.29182	2.14480	2.08344	2.07301	
.000	2.00000	1487.99101	87.01836	654.91204	1.42290	1.37876	1.29551	2.13048	2.07241	1.99423	
2.000	2.00000	1487.56725	87.01707	654.90228	1.42347	1.38985	1.30883	2.12941	2.07753	1.97224	
4.000	2.00000	1487.95211	87.01669	654.89940	1.43974	1.40184	1.32594	2.13173	2.02211	1.98372	
6.000	2.00000	1487.95708	87.01653	654.89824	1.44496	1.40184	1.33614	2.12602	2.07950	1.99495	
8.000	2.00000	1487.91705	87.01443	654.88243	1.45715	1.42163	1.35305	2.14395	2.09748	2.02853	
10.000	2.00000	1487.91705	87.01538	654.88956	1.46278	1.43112	1.37112	2.14015	2.09956	2.02169	
12.000	2.00000	1487.93314	87.01483	654.88538	1.47029	1.44201	1.38755	2.14243	2.15562	2.03453	
14.000	2.00000	1487.92639	87.01604	654.89454	1.47706	1.45002	1.40034	2.14294	2.10719	2.04303	
16.000	2.00000	1487.94725	87.01502	654.89862	1.48099	1.45466	1.40870	2.12954	2.09555	2.03556	
18.000	2.00000	1487.92914	87.01727	654.90379	1.49018	1.46339	1.42061	2.12651	2.09219	2.03749	
20.000	2.00000	1487.95275	87.01634	654.90131	1.50288	1.47755	1.43771	2.12518	2.09947	2.04652	
22.000	2.00000	1487.95439	87.01867	654.91432	1.51334	1.48973	1.44876	2.13916	2.10694	2.05571	
24.000	2.00000	1487.98357	87.01867	654.91432	1.51334	1.48973	1.44876	2.13916	2.10694	2.05571	
GRADIENT	.00000	.16166	.00976	.07349	.00167	.00339	.00425	-.00365	-.00148	-.00019	

RV/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	BETA	PT	P	OCOMP	M11	M21	M31	M12	M22	M32	M33
ALPHA	2.00000	1939.15904	51.12351	555.47639	1.57364	1.49404	1.35666	2.49831	2.36614	2.19286	
.000	2.00000	1940.13321	51.14938	555.76151	1.58677	1.50975	1.36896	2.51434	2.40476	2.20883	
2.000	2.00000	1939.45256	51.13434	555.59507	1.58817	1.52072	1.38247	2.49053	2.39408	2.20174	
4.000	2.00000	1939.50589	51.13526	555.60524	1.59495	1.53212	1.40609	2.49775	2.43909	2.23356	
6.000	2.00000	1939.54354	51.14013	555.65913	1.61178	1.54339	1.42234	2.49783	2.41552	2.24755	
8.000	2.00000	1937.17825	51.07750	554.96639	1.60947	1.55137	1.44227	2.49582	2.41431	2.25375	
10.000	2.00000	1939.09195	51.10284	555.24663	1.62637	1.57399	1.47517	2.51959	2.44459	2.30127	
12.000	2.00000	1937.62146	51.08700	555.07146	1.63384	1.58731	1.49487	2.52353	2.45221	2.32939	
14.000	2.00000	1939.26642	51.13221	555.57153	1.63596	1.59195	1.50942	2.50016	2.45833	2.33432	
16.000	2.00000	1938.53473	51.11276	555.35637	1.63989	1.59642	1.52332	2.49548	2.45611	2.33521	
18.000	2.00000	1938.72614	51.12192	555.45771	1.64938	1.60585	1.53823	2.49550	2.45643	2.34124	
20.000	2.00000	1939.94917	51.12888	555.53468	1.65442	1.61170	1.54718	2.49162	2.45277	2.34435	
22.000	2.00000	1938.90468	51.12936	555.52891	1.65686	1.61482	1.55436	2.48506	2.44271	2.34458	
24.000	2.00000	1938.90468	51.12936	555.52891	1.65686	1.61482	1.55436	2.48506	2.44271	2.34458	
GRADIENT	.00000	.07342	.00268	.02967	.00388	.00657	.00645	-.00192	-.00224	-.00222	

(EE7X05) (02 AUG 78)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.6000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 2.000 ELEVON = .000
AILRON = .000 BCFLAP = -7.170

PARAMETRIC DATA

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500

ALPHA

ALPHA	BETA	PT	P	QCOMP	M1	M2	M3	M13	M23	M33
.000	2.00000	2667.8812	34.95021	532.71109	1.65684	1.54641	1.35007	2.72901	2.56490	2.29334
2.000	2.00000	2667.99584	34.95149	532.73055	1.67307	1.57002	1.38004	2.75072	2.59747	2.31590
4.000	2.00000	2667.55579	34.94600	532.64699	1.67984	1.58847	1.39916	2.74224	2.60696	2.33125
6.000	2.00000	2658.66705	34.95039	532.86630	1.68531	1.59787	1.42539	2.75135	2.62175	2.35335
8.000	2.00000	2658.83285	34.95260	532.89932	1.69558	1.61385	1.45002	2.74387	2.62347	2.36531
10.000	2.00000	2667.43528	34.94465	532.62630	1.70159	1.62230	1.47759	2.73697	2.62070	2.41155
12.000	2.00000	2659.69775	34.97392	533.07244	1.71511	1.64632	1.51470	2.74556	2.64490	2.44431
14.000	2.00000	2669.85501	34.96312	532.90790	1.71855	1.65742	1.53443	2.73883	2.64865	2.47032
16.000	2.00000	2669.65951	34.97344	532.06512	1.72811	1.65769	1.55913	2.73405	2.64640	2.49562
18.000	2.00000	2658.57300	34.96078	532.87227	1.72819	1.65907	1.57297	2.72625	2.64058	2.52354
20.000	2.00000	2670.18905	34.98034	533.17038	1.72428	1.66704	1.57709	2.68757	2.60553	2.47770
22.000	2.00000	2668.18328	34.95339	532.76417	1.72504	1.66020	1.59273	2.67293	2.59208	2.47701
24.000	2.00000	2670.01163	34.97799	533.13458	1.72394	1.66392	1.58038	2.66958	2.57463	2.45535
GRADIENT	.00000	-.09307	-.00105	-.01603	.00575	.01051	.00977	.00331	.01051	.00948

(EE7X07) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BCFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1075.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
ALPHA	5.00000	2624.0005	2057.68289	566.31805	.61543	.61556	.61538	.67306	.67320	.67302
2.000	5.00000	2623.93231	2057.61972	566.31259	.60905	.60883	.60917	.66629	.66609	.66640
4.000	5.00000	2624.85635	2058.36877	566.48758	.60707	.60718	.60714	.66146	.66156	.66153
6.000	5.00000	2627.65573	2060.37475	567.28098	.61064	.61061	.61065	.66405	.66402	.66444
8.000	5.00000	2625.01135	2059.40189	567.60947	.61006	.61016	.60999	.66216	.66226	.66209
10.000	5.00000	2625.86366	2053.00568	566.85800	.61613	.61613	.61595	.66251	.66251	.66297
12.000	5.00000	2624.17457	2057.86670	566.30737	.61957	.61931	.61934	.66522	.66528	.66493
14.000	5.00000	2624.35069	2058.07087	566.33981	.62853	.62817	.62754	.67254	.67220	.67150
16.000	5.00000	2624.72936	2058.21182	566.51654	.63733	.63764	.63718	.67618	.67648	.67604
18.000	5.00000	2627.18732	2059.98223	567.20209	.64952	.65001	.64945	.68333	.68180	.68127
20.000	5.00000	2627.48154	2060.22819	567.25336	.66668	.66716	.66537	.69355	.69141	.69235
22.000	5.00000	2625.24254	2058.51157	566.53098	.67912	.68023	.67578	.69864	.69992	.69855
24.000	5.00000	2625.90532	2059.18518	566.72034	.69323	.69184	.68365	.70362	.70519	.69981
GRADIENT	.00000	.21387	.17145	.04238	-.00209	-.00210	-.00206	-.00290	-.00291	-.00287

PN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
ALPHA	5.00000	2111.48715	1249.50783	862.97934	.82453	.82480	.82424	.95017	.95041	.94994
2.000	5.00000	2115.43283	1250.78174	864.65109	.82250	.82287	.82258	.93985	.94016	.94022
4.000	5.00000	2117.10138	1251.73028	865.37109	.82013	.82030	.82038	.92351	.92351	.92358
6.000	5.00000	2114.78214	1250.37328	864.41898	.81819	.81975	.81893	.92122	.92175	.92181
8.000	5.00000	2109.95937	1247.40634	862.56323	.82146	.82194	.82197	.91530	.91574	.91578
10.000	5.00000	2116.55933	1251.47731	865.09103	.83101	.83309	.83061	.91460	.91471	.91444
12.000	5.00000	2116.71036	1251.55195	865.14841	.83442	.83447	.83441	.91493	.91498	.91492
14.000	5.00000	2112.28323	1249.90517	863.37808	.84475	.84511	.84498	.91794	.91827	.91815
16.000	5.00000	2114.90735	1250.43449	864.47287	.85964	.85993	.85954	.92175	.92200	.92156
18.000	5.00000	2115.76746	1250.94567	864.82080	.87441	.87441	.87411	.92759	.92770	.92742
20.000	5.00000	2108.11169	1246.37889	861.73282	.89306	.89375	.89376	.93758	.93825	.93729
22.000	5.00000	2109.97069	1247.37915	862.59174	.91492	.91651	.91416	.95117	.95375	.95273
24.000	5.00000	2116.70166	1251.42284	865.27894	.93741	.94012	.93543	.98221	.98221	.98181
GRADIENT	.00000	1.40354	.60562	.59794	-.00110	-.00112	-.00095	-.00521	-.00523	-.00529

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.6000 IN. YMRP = .0000 IN. Y0
BREF = 935.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
1.200	.000	5.00000	2011.53369	829.44221	1167.44115	.94970	.94946	.94887	1.09336	1.69314	1.09259
2.000	.000	5.00000	2009.60754	828.83453	1166.58583	.95576	.95586	.95524	1.07724	1.07733	1.07675
4.000	.000	5.00000	2010.79175	829.08212	1166.92431	.95923	.95865	.95829	1.07314	1.07260	1.07227
6.000	.000	5.00000	2013.55270	830.02622	1168.22992	.96084	.96071	.96010	1.06903	1.06891	1.06834
8.000	.000	5.00000	2013.05412	829.84943	1168.01431	.96445	.96435	.96376	1.07393	1.07383	1.07328
10.000	.000	5.00000	2013.29351	829.89634	1168.06627	.97335	.97332	.97290	1.10997	1.10994	1.10955
12.000	.000	5.00000	2013.92358	830.14828	1168.43494	.97185	.97182	.97182	1.14645	1.14648	1.14642
14.000	.000	5.00000	2014.49097	830.35471	1168.72548	.97816	.97827	.97898	1.15475	1.15484	1.15552
16.000	.000	5.00000	2014.72244	830.37993	1168.76085	.99924	.99962	1.00040	1.16198	1.16235	1.16310
18.000	.000	5.00000	2016.26015	830.79547	1169.34595	1.01774	1.01844	1.01882	1.17808	1.17875	1.17922
20.000	.000	5.00000	2018.08566	831.44070	1170.25401	1.03587	1.03665	1.03712	1.19468	1.19545	1.19591
22.000	.000	5.00000	2018.50551	830.88952	1169.47824	1.05220	1.05323	1.05373	1.21179	1.21281	1.21330
24.000	.000	5.00000	2018.10297	831.44154	1170.21298	1.06827	1.07052	1.07123	1.24265	1.24491	1.24562
GRADIENT		.00000	-1.18549	-0.09002	-1.12671	.00238	.00230	.00236	-.00505	-.00513	-.00588

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
1.400	.000	5.00000	2051.64871	644.49467	1320.72128	1.04625	1.04155	1.04348	1.32189	1.31714	1.31988
2.000	.000	5.00000	2052.59505	644.77777	1321.30142	1.05238	1.04884	1.05058	1.30918	1.30480	1.30735
4.000	.000	5.00000	2045.37286	642.84837	1317.34763	1.05665	1.05262	1.05516	1.30661	1.30254	1.30510
6.000	.000	5.00000	2043.72665	642.43147	1316.49332	1.06034	1.05709	1.05664	1.30624	1.30295	1.30249
8.000	.000	5.00000	2038.74538	641.18506	1313.94118	1.06356	1.05988	1.05953	1.31119	1.30745	1.30709
10.000	.000	5.00000	2037.38092	640.82363	1313.19847	1.07105	1.06743	1.06775	1.31671	1.31301	1.31338
12.000	.000	5.00000	2038.57905	641.10539	1313.77788	1.07121	1.06711	1.06967	1.32509	1.32090	1.32352
14.000	.000	5.00000	2044.59329	642.68520	1317.01324	1.07732	1.07359	1.07485	1.33427	1.33058	1.33688
16.000	.000	5.00000	2042.24944	642.08685	1315.78711	1.09838	1.09546	1.09485	1.35127	1.34825	1.34761
18.000	.000	5.00000	2029.50303	639.78069	1309.01199	1.11142	1.10805	1.10857	1.36179	1.35828	1.35883
20.000	.000	5.00000	2032.02077	639.50005	1310.48613	1.11803	1.11484	1.11472	1.37818	1.37483	1.37471
22.000	.000	5.00000	2035.48525	640.41441	1312.35988	1.13322	1.13057	1.12995	1.39129	1.38850	1.38890
24.000	.000	5.00000	2020.62016	636.51413	1304.35728	1.14226	1.13959	1.13574	1.39192	1.38911	1.38507
GRADIENT		.00000	-1.56897	-4.11158	-8.4341	.00260	.00277	.00292	-.00382	-.00365	-.00350

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(EE7X07) (02 AUG 76)

REFERENCE DATA

SREF = 3690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
	.000	5.00000	1561.82259	396.34618	1032.75972	1.12471	1.11996	1.11218	1.46733	1.46221	1.45382
	2.000	5.00000	1563.04528	396.65676	1033.56905	1.12424	1.11890	1.11004	1.45513	1.44939	1.43988
	4.000	5.00000	1563.16922	396.66547	1033.59172	1.13155	1.12538	1.11898	1.44882	1.44220	1.43493
	6.000	5.00000	1563.46620	396.74025	1033.78656	1.13605	1.13116	1.12515	1.44636	1.44113	1.43469
	8.000	5.00000	1567.33949	397.71354	1036.32269	1.14335	1.13997	1.13270	1.45026	1.44663	1.43884
	10.000	5.00000	1572.23886	398.95424	1039.55556	1.15054	1.14757	1.14084	1.46333	1.46012	1.45297
	12.000	5.00000	1570.17735	398.42982	1038.18903	1.15915	1.15487	1.15066	1.46896	1.46433	1.45976
	14.000	5.00000	1568.15354	397.92425	1036.87173	1.16429	1.15930	1.14959	1.47262	1.46571	1.45673
	16.000	5.00000	1568.63312	398.03931	1037.16693	1.17328	1.16796	1.16207	1.48798	1.48219	1.47379
	18.000	5.00000	1568.80666	398.07167	1037.25586	1.19122	1.18556	1.17745	1.50318	1.49782	1.48815
	20.000	5.00000	1568.97487	398.12054	1037.38345	1.20737	1.20324	1.19105	1.51217	1.50765	1.49435
	22.000	5.00000	1571.11673	398.66999	1038.81490	1.21504	1.21367	1.20280	1.50998	1.50849	1.49584
	24.000	5.00000	1571.43958	398.73845	1038.99330	1.21763	1.21613	1.20662	1.52972	1.52806	1.51763
	GRADIENT	.00000	.33565	.07983	.20800	.00171	.00135	.00160	-.00463	-.00500	-.00472

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
	.000	5.00000	1655.65865	310.98268	1070.81854	1.19293	1.18128	1.16519	1.62572	1.61238	1.59407
	2.000	5.00000	1655.87311	311.02239	1070.95529	1.19232	1.18264	1.16573	1.61466	1.60362	1.58445
	4.000	5.00000	1655.81648	311.01186	1070.91904	1.20367	1.19259	1.17706	1.61214	1.59956	1.58198
	6.000	5.00000	1656.53960	311.14603	1071.38103	1.21031	1.20205	1.18760	1.61159	1.60231	1.58595
	8.000	5.00000	1655.73843	310.99725	1070.86871	1.21947	1.21112	1.19484	1.61777	1.60927	1.58982
	10.000	5.00000	1655.74200	310.99660	1070.87334	1.22150	1.21346	1.20072	1.61913	1.60999	1.59555
	12.000	5.00000	1654.84193	310.82005	1070.25854	1.23403	1.22460	1.21465	1.62688	1.61615	1.60485
	14.000	5.00000	1655.26350	311.09286	1071.19794	1.24289	1.23154	1.21398	1.63438	1.62145	1.61473
	16.000	5.00000	1656.03967	311.05466	1071.06638	1.25105	1.24125	1.22183	1.64809	1.63686	1.62830
	18.000	5.00000	1656.02122	310.85534	1070.38005	1.26559	1.25597	1.23822	1.66074	1.64857	1.63698
	20.000	5.00000	1654.73904	310.79940	1070.18747	1.27953	1.26865	1.24942	1.66536	1.65259	1.63988
	22.000	5.00000	1655.71509	310.98600	1070.82997	1.29023	1.27889	1.25886	1.66766	1.65469	1.64157
	24.000	5.00000	1656.66179	311.16761	1071.45531	1.29622	1.28468	1.26585	1.67713	1.66391	1.64242
	GRADIENT	.00000	.03945	.00730	.02512	.00268	.00283	.00297	-.00340	-.00321	-.00302

(EE7X07) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-89N)

ARC 11-97-87-89N OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

BETA =
AIRLON =

ELEVON = .000
BOFLAP = -7.178

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
2.000	.000	5.00000	1834.93884	234.25348	1087.03931	1.29822	1.27650	1.24696	1.83075	1.80312	1.76636
2.000	.000	5.00000	1830.93913	233.75630	1084.73218	1.30643	1.28536	1.25298	1.83378	1.80818	1.76909
4.000	.000	5.00000	1831.46227	233.83033	1085.07568	1.31358	1.29611	1.26312	1.82423	1.80311	1.76346
6.000	.000	5.00000	1831.73577	233.86808	1085.25089	1.32596	1.30596	1.27264	1.82549	1.80140	1.75148
8.000	.000	5.00000	1834.07391	234.17492	1086.67477	1.34072	1.32200	1.29016	1.84520	1.82256	1.78424
10.000	.000	5.00000	1836.11595	234.42052	1087.81444	1.34777	1.33786	1.30200	1.84469	1.82487	1.78961
12.000	.000	5.00000	1836.10439	234.41899	1087.80734	1.35878	1.34980	1.31296	1.84911	1.82868	1.79130
14.000	.000	5.00000	1841.38962	235.10691	1090.99960	1.36845	1.35845	1.31857	1.85110	1.82868	1.79130
16.000	.000	5.00000	1849.86311	236.19734	1096.05969	1.37881	1.36064	1.32262	1.87742	1.85542	1.80959
18.000	.000	5.00000	1849.98158	236.21837	1096.15729	1.39016	1.37284	1.32516	1.88754	1.86656	1.82110
20.000	.000	5.00000	1845.65546	235.66004	1093.56639	1.40715	1.39050	1.35610	1.88834	1.86826	1.82596
22.000	.000	5.00000	1847.52986	235.89360	1094.65019	1.42474	1.40703	1.37297	1.91698	1.89552	1.85438
24.000	.000	5.00000	1848.52832	235.04575	1095.35625	1.43554	1.41535	1.38290	1.94773	1.92303	1.88364
GRADIENT		.00000	-1.86914	-1.10579	-1.49091	.00359	.00490	.00426	-.00163	-.00000	-.00072

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M11	M21	M31	M13	M23	M33
2.250	.000	5.00000	2059.36877	178.11418	1069.00968	1.35773	1.35758	1.30536	2.02605	1.97488	1.90893
2.000	.000	5.00000	2058.48529	178.03863	1068.55612	1.40259	1.36433	1.31024	2.00570	1.95741	1.88970
4.000	.000	5.00000	2059.33249	178.11115	1068.99139	1.40858	1.37170	1.31704	2.00081	1.95441	1.88623
6.000	.000	5.00000	2059.45581	178.12163	1069.05426	1.41576	1.38317	1.32857	2.01111	1.97003	1.90174
8.000	.000	5.00000	2058.44626	178.03983	1068.53333	1.42693	1.39462	1.34304	2.01782	1.97714	1.91266
10.000	.000	5.00000	2059.21469	178.10055	1068.92778	1.43446	1.40536	1.35932	2.02193	1.98532	1.92774
12.000	.000	5.00000	2058.72852	178.05887	1068.67758	1.44065	1.41262	1.36720	2.03079	1.99548	1.93658
14.000	.000	5.00000	2058.33539	178.02506	1068.47466	1.44450	1.41373	1.37055	2.04032	2.00147	1.94726
16.000	.000	5.00000	2059.73250	178.14466	1069.19247	1.44887	1.42105	1.37177	2.06799	1.99190	1.94773
18.000	.000	5.00000	2058.78250	178.06276	1068.70093	1.45835	1.43371	1.37825	2.03976	2.00879	1.94076
20.000	.000	5.00000	2059.63272	178.13587	1069.13972	1.44766	1.42273	1.37315	2.04413	2.01263	1.95034
22.000	.000	5.00000	2058.95166	178.07759	1068.78992	1.47210	1.44533	1.39420	2.06962	2.03576	1.97143
24.000	.000	5.00000	2058.71259	178.05686	1068.66547	1.44537	1.42064	1.37403	1.99462	1.96395	1.90543
GRADIENT		.00000	-1.00907	-1.00076	-1.00455	.00271	.00353	.00292	-.00631	-.00512	-.00568

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7X07) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = 0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 5.000 ELEVON = .000
AILRON = .000 SQFLAP = -7.170

PARAMETRIC DATA

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
2.500	.000	5.00000	1487.41809	86.98371	654.65117	1.45034	1.40032	1.32581	2.17827	2.11192	2.01415
2.000	.000	5.00000	1487.53204	86.99042	654.70170	1.46210	1.41224	1.33785	2.19111	2.12491	2.02719
4.000	.000	5.00000	1487.58736	86.99367	654.72614	1.46767	1.42188	1.34813	2.18776	2.12714	2.03046
6.000	.000	5.00000	1487.58563	86.99354	654.72516	1.47600	1.43182	1.35763	2.17736	2.11926	2.02622
8.000	.000	5.00000	1487.60661	86.99529	654.73832	1.48188	1.44738	1.37499	2.18253	2.12999	2.03483
10.000	.000	5.00000	1487.63736	86.99730	654.75346	1.49773	1.46072	1.39397	2.19783	2.14915	2.06201
12.000	.000	5.00000	1487.63515	86.99718	654.75260	1.50843	1.47174	1.40969	2.21090	2.16261	2.08146
14.000	.000	5.00000	1487.64052	86.99771	654.75657	1.52194	1.48396	1.42434	2.22513	2.17511	2.09710
16.000	.000	5.00000	1487.63156	86.99771	654.75660	1.52428	1.49159	1.43190	2.24006	2.18106	2.11493
18.000	.000	5.00000	1487.64584	86.99899	654.76619	1.52960	1.50106	1.44479	2.25600	2.18849	2.12611
20.000	.000	5.00000	1487.63217	86.99842	654.74684	1.53952	1.50898	1.45741	2.23226	2.19349	2.13252
22.000	.000	5.00000	1487.61295	86.99681	654.74979	1.54587	1.51737	1.46614	2.23877	2.19940	2.14323
24.000	.000	5.00000	1487.57964	86.99521	654.73773	1.54259	1.51582	1.47012	2.23819	2.20302	2.14323
GRADIENT		.00000	.04233	.00249	.01874	.00433	.00539	.00558	.00237	.00381	.00408

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
3.000	.000	5.00000	1939.46461	51.12282	565.46770	1.55886	1.51017	1.39055	2.54479	2.42207	2.25313
2.000	.000	5.00000	1937.72949	51.07815	564.97363	1.60739	1.52295	1.39934	2.55096	2.43030	2.25688
4.000	.000	5.00000	1938.05081	51.08625	565.06321	1.62630	1.54311	1.41930	2.57982	2.46063	2.28548
6.000	.000	5.00000	1938.52211	51.09501	565.20436	1.63466	1.55715	1.43033	2.57838	2.46770	2.29117
8.000	.000	5.00000	1938.14912	51.09524	565.16261	1.64772	1.57884	1.45658	2.58707	2.48688	2.31643
10.000	.000	5.00000	1939.11229	51.09843	565.17573	1.65989	1.59217	1.47740	2.60058	2.50532	2.34334
12.000	.000	5.00000	1937.93176	51.09222	565.12921	1.67182	1.61032	1.50261	2.61578	2.52807	2.37573
14.000	.000	5.00000	1938.21223	51.10291	565.24744	1.68469	1.62642	1.52088	2.63003	2.54693	2.39759
16.000	.000	5.00000	1938.80711	51.12403	565.48102	1.69293	1.63974	1.53895	2.63517	2.55940	2.41696
18.000	.000	5.00000	1938.64461	51.12433	565.48442	1.69367	1.64699	1.55005	2.63282	2.56639	2.42932
20.000	.000	5.00000	1938.51358	51.11730	565.40661	1.69880	1.65223	1.56391	2.61861	2.55298	2.42887
22.000	.000	5.00000	1938.80377	51.12642	565.50747	1.70216	1.65725	1.57590	2.62847	2.56486	2.45027
24.000	.000	5.00000	1939.09142	51.11131	565.34034	1.69154	1.64527	1.57383	2.61444	2.54893	2.44832
GRADIENT		.00000	-.35345	-.00914	-.10112	.00761	.00821	.00719	.00876	.00954	.00809

TABLULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(EE7X07) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AILRON =

5.000 ELEVON = .000
.000 BDFLAP = -7.178

PARAMETRIC DATA

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500

ALPHA

.000

2.000

4.000

6.000

8.000

10.000

12.000

14.000

16.000

18.000

20.000

22.000

24.000

GRADIENT

BETA	PT	P	QCOMP	M11	M21	M31	M13	M23	M33
5.00000	2683.02945	35.14780	535.72283	1.65608	1.53943	1.38589	2.77200	2.59623	2.38890
5.00000	2682.78683	35.14482	535.67736	1.67810	1.56159	1.40155	2.80669	2.63067	2.39295
5.00000	2680.96332	35.12155	535.32265	1.69608	1.57955	1.42151	2.81674	2.64134	2.40722
5.00000	2682.66758	35.14306	535.65053	1.70585	1.60079	1.43603	2.81317	2.65574	2.41248
5.00000	2680.66055	35.11761	535.26256	1.71870	1.62784	1.46421	2.83536	2.69883	2.45619
5.00000	2682.31409	35.13848	535.58065	1.72877	1.64015	1.48713	2.83188	2.69937	2.47330
5.00000	2680.79922	35.11946	535.29087	1.74050	1.65968	1.51643	2.83101	2.71072	2.49973
5.00000	2681.94269	35.13391	535.51104	1.75624	1.67969	1.54101	2.85575	2.74161	2.53578
5.00000	2680.82974	35.11878	535.28040	1.76379	1.69590	1.55741	2.86113	2.75998	2.55552
5.00000	2680.17957	35.11156	535.17036	1.75550	1.69478	1.56470	2.83169	2.74177	2.55057
5.00000	2692.18320	35.13710	535.55972	1.76340	1.70314	1.58456	2.85345	2.76368	2.56888
5.00000	2680.60205	35.11565	535.23274	1.75714	1.69375	1.58891	2.82787	2.73417	2.56028
5.00000	2680.41901	35.11479	535.21957	1.75261	1.6875	1.59148	2.81734	2.72127	2.56049
.00000	-51654	-00656	-10005	.01000	.01003	.00891	.01118	.01128	.00958

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7803) (02 AUG 76)

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
ALPHA	-5.00000	2003.91339	828.82202	1166.56822	.81236	.81132	.81148	.94471	.94367	.94383
.000	-5.00000	2009.59576	828.57557	1166.22134	.81927	.81883	.81924	.93617	.93573	.93614
2.000	-5.00000	2012.59209	829.41618	1167.40450	.82523	.82566	.82499	.92894	.92937	.92870
4.000	-5.00000	2007.30058	828.01813	1165.43574	.82704	.82739	.82742	.92433	.92468	.92470
6.000	-5.00000	2005.18105	827.75428	1165.08044	.83256	.83173	.83172	.93618	.93535	.93533
8.000	-5.00000	1999.63934	825.39300	1163.13528	.83764	.83523	.83442	.96849	.96408	.96327
10.000	-5.00000	2001.46516	825.74893	1163.65021	.85108	.84753	.84648	.98533	.98179	.98074
12.000	-5.00000	2001.00822	826.64798	1163.50826	.86336	.85972	.85987	.98756	.98291	.98406
14.000	-5.00000	1999.43224	826.30900	1163.03114	.87369	.86830	.87080	.99338	.98798	.99049
16.000	-5.00000	2003.10529	827.22448	1164.29153	.89167	.88628	.88768	1.00648	1.00110	1.00250
18.000	-5.00000	2003.56302	826.62395	1163.47430	.90640	.90104	.90229	1.01144	1.00608	1.00733
20.000	-5.00000	1996.12405	825.65847	1162.11552	.91331	.90950	.91167	1.01236	1.00715	1.00932
22.000	-5.00000	1995.54181	825.41649	1161.77493	.92428	.92253	.92533	1.01385	1.01210	1.01490
24.000	-5.00000	1995.54181	825.41649	1161.77493	.92428	.92253	.92533	1.01385	1.01210	1.01490
GRADIENT	.00000	.68967	.14854	.20908	.00322	.00359	.00338	-.00394	-.00557	-.00378

PN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
ALPHA	-5.00000	1578.31139	400.01855	1042.32884	.77473	.78492	.79539	.94965	.95984	.97031
.000	-5.00000	1578.99117	400.18729	1042.76854	.78049	.79042	.80106	.94752	.95745	.96809
2.000	-5.00000	1577.32025	399.78399	1041.71767	.78702	.79657	.80681	.94898	.95854	.96878
4.000	-5.00000	1577.34303	399.79176	1041.73790	.79270	.80250	.81386	.94851	.95831	.96867
6.000	-5.00000	1579.35894	400.03287	1042.36615	.78975	.80395	.81637	.93905	.95325	.96555
8.000	-5.00000	1575.77289	399.39394	1040.73128	.79187	.81013	.82343	.93472	.95297	.96628
10.000	-5.00000	1575.64384	399.36381	1040.63841	.81326	.82224	.83207	.94929	.95827	.96810
12.000	-5.00000	1575.95380	399.44687	1040.83922	.81836	.82941	.83982	.94524	.95629	.96571
14.000	-5.00000	1575.97449	399.45256	1040.85405	.81506	.82993	.84212	.93864	.95351	.96570
16.000	-5.00000	1575.27609	399.52647	1041.04663	.81918	.83501	.84642	.93938	.95522	.96662
18.000	-5.00000	1575.81970	399.41241	1040.74942	.82225	.83945	.85165	.94105	.95825	.97045
20.000	-5.00000	1575.80944	399.41526	1040.75685	.81863	.83720	.85021	.94058	.95915	.97215
22.000	-5.00000	1575.42549	399.57412	1041.17078	.81549	.83406	.84645	.93570	.95427	.96657
24.000	-5.00000	1575.42549	399.57412	1041.17078	.81549	.83406	.84645	.93570	.95427	.96657
GRADIENT	.00000	-.24779	-.05863	-.15279	.00307	.00291	.00286	-.00016	-.00033	-.00038

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7863) (02 AUG 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.176

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.758

ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
.000	-5.00000	1643.42418	309.79275	1066.72121	.72401	.74699	.77187	.89559	.91657	.94400
2.000	-5.00000	1650.93587	310.08348	1067.72229	.73354	.75625	.77833	.89899	.92169	.94378
4.000	-5.00000	1650.24094	309.94633	1067.25003	.73961	.76192	.78423	.90108	.92339	.94569
6.000	-5.00000	1649.94432	309.89394	1067.06963	.74759	.76744	.78927	.90558	.92543	.94725
8.000	-5.00000	1650.82304	310.06269	1067.65071	.74285	.77120	.79394	.89534	.92429	.94644
10.000	-5.00000	1650.44762	309.98747	1067.39171	.74832	.77931	.79947	.89655	.92755	.94771
12.000	-5.00000	1651.41377	310.17471	1068.03642	.76501	.78799	.80584	.91079	.93276	.95062
14.000	-5.00000	1651.02856	310.09678	1067.76807	.77391	.79339	.81275	.91447	.93395	.95227
16.000	-5.00000	1650.14075	309.92978	1067.19304	.76869	.79254	.81406	.90689	.92902	.94818
18.000	-5.00000	1650.84254	310.06318	1067.65240	.76512	.79254	.81028	.89846	.92672	.94613
20.000	-5.00000	1651.38724	310.16493	1069.00276	.76262	.79087	.81028	.89590	.92260	.94243
22.000	-5.00000	1651.57825	310.20011	1068.12389	.76663	.79353	.81316	.89590	.92260	.94243
24.000	-5.00000	1651.58163	310.20077	1068.12617	.76678	.79087	.81094	.89375	.91765	.93792
GRADIENT	.00000	.20419	.03840	.13221	.00390	.00373	.00359	.00137	.00120	.00056

MACH = 2.000

ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
.000	-5.00000	1847.06216	235.97826	1095.04305	.70545	.75003	.78853	.86570	.91028	.94878
2.000	-5.00000	1848.00623	236.10478	1095.63014	.71538	.75743	.79463	.87112	.91317	.95037
4.000	-5.00000	1847.42177	235.02850	1095.27618	.72380	.76756	.80329	.87470	.91846	.95418
6.000	-5.00000	1846.95721	235.96262	1094.97044	.73366	.77473	.80827	.88155	.92267	.95616
8.000	-5.00000	1846.59805	235.96757	1094.93344	.73928	.78301	.81724	.88213	.92585	.96008
10.000	-5.00000	1846.48545	235.90250	1094.67596	.74291	.79107	.81935	.88173	.92989	.95977
12.000	-5.00000	1846.51515	235.90250	1094.69146	.75570	.79479	.82493	.89392	.93301	.96315
14.000	-5.00000	1846.62762	235.91659	1094.75882	.76235	.79697	.82627	.89899	.93441	.96340
16.000	-5.00000	1846.52921	235.83774	1094.59096	.76211	.80136	.82756	.89378	.93303	.96323
18.000	-5.00000	1846.35065	235.87904	1094.59261	.76612	.80619	.82522	.88439	.92644	.95347
20.000	-5.00000	1846.86618	235.94551	1094.89108	.75591	.79587	.82429	.88084	.92093	.94922
22.000	-5.00000	1847.20576	235.93682	1095.09203	.75358	.79306	.82122	.87188	.91136	.93952
24.000	-5.00000	1846.03110	235.83439	1094.37541	.76239	.79887	.82666	.87569	.91218	.93937
GRADIENT	.00000	.08990	.01256	.05829	.00459	.00433	.00369	.00225	.00205	.00135

TABULATED DATA - OA161 (ARC 11-97-87-094)
 ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7803) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.70

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = +74.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
2.000	2.000	-5.00000	2051.52133	177.43511	1064.93391	.68747	.75627	.80984	.83395	.90276	.95633
4.000	2.000	-5.00000	2050.73444	177.36766	1064.52902	.69466	.76323	.81697	.83795	.90553	.96027
6.000	4.000	-5.00000	2050.90634	177.38244	1064.61781	.70466	.76970	.82162	.84515	.91019	.96210
8.000	6.000	-5.00000	2050.73029	177.36738	1064.52737	.71683	.77610	.82586	.85486	.91413	.96389
10.000	8.000	-5.00000	2051.17938	177.40587	1064.75842	.72725	.78476	.83222	.86262	.92013	.96559
12.000	10.000	-5.00000	2051.78479	177.45775	1065.06981	.73690	.79335	.83950	.87159	.92805	.97429
14.000	12.000	-5.00000	2052.43539	177.51383	1065.40637	.74851	.80222	.84474	.87927	.93338	.97589
16.000	14.000	-5.00000	2054.24664	177.57552	1065.75092	.75473	.80563	.84513	.88203	.93195	.97442
18.000	16.000	-5.00000	2055.90338	177.61194	1066.19557	.75297	.80131	.84829	.87760	.92514	.96533
20.000	18.000	-5.00000	2055.49189	177.77633	1066.99186	.74922	.79992	.84343	.86794	.91911	.95962
22.000	20.000	-5.00000	2055.35655	177.76571	1066.91809	.74230	.79541	.83434	.85446	.90758	.94651
24.000	22.000	-5.00000	2056.58188	177.86968	1067.54214	.75403	.80664	.84615	.86639	.91899	.95851
GRADIENT		.00000	-.15373	-.01317	-.07902	.00430	.00336	.00294	.00280	.00186	.00144

PN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
2.000	2.000	-5.00000	1498.56390	87.64465	659.62552	.64490	.72757	.79354	.77882	.86149	.92745
4.000	2.000	-5.00000	1497.87276	87.60338	659.31491	.65246	.73584	.80542	.78508	.86346	.93805
6.000	4.000	-5.00000	1497.09436	87.55775	658.97150	.66559	.74815	.81492	.79644	.87901	.94577
8.000	6.000	-5.00000	1497.75047	87.59612	659.26024	.68024	.75964	.82440	.80861	.88801	.95277
10.000	8.000	-5.00000	1497.84230	87.60144	659.30032	.69640	.77234	.83073	.82322	.89916	.95755
12.000	10.000	-5.00000	1497.81511	87.59991	659.28880	.71107	.78263	.83955	.83571	.90733	.96334
14.000	12.000	-5.00000	1497.81754	87.59989	659.28856	.71573	.78580	.83962	.83976	.90983	.96365
16.000	14.000	-5.00000	1497.77357	87.59764	659.27169	.72193	.79099	.84103	.84487	.91392	.96397
18.000	16.000	-5.00000	1497.77548	87.59656	659.26360	.72538	.79001	.84085	.84623	.91085	.95752
20.000	18.000	-5.00000	1497.79367	87.59658	659.26370	.72543	.78993	.84026	.84269	.90719	.94875
22.000	20.000	-5.00000	1497.81293	87.59782	659.27309	.72219	.78613	.83411	.83684	.90082	.93796
24.000	22.000	-5.00000	1497.82393	87.59903	659.28218	.71595	.77901	.82749	.82642	.88948	.92166
GRADIENT		.00000	-.36733	-.02172	-.16350	.00365	.00515	.00433	.00441	.00438	.00458

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-894)
ARC 11-97-87-894 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
ZREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0320

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000
ALPHA

BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
-5.0000	1935.56339	51.10074	565.22348	.56874	.68717	.78554	.69915	.81758	.91595
-5.0000	1935.15036	51.09178	565.12438	.57757	.69561	.79584	.70722	.82527	.92649
-5.0000	1935.07675	51.11307	565.35988	.59455	.71274	.80929	.72188	.84008	.93663
-5.0000	1936.50783	51.12482	565.48977	.61313	.72784	.82197	.73984	.85455	.94868
-5.0000	1935.47981	51.12357	565.47800	.63570	.74413	.83001	.76106	.86949	.95537
-5.0000	1935.30977	51.12127	565.45056	.65501	.75996	.84097	.77786	.88281	.96383
-5.0000	1935.00462	51.11145	565.34191	.66681	.76840	.84644	.79326	.89266	.96731
-5.0000	1935.75789	51.08156	565.18574	.67373	.77156	.84906	.79853	.89377	.96936
-5.0000	1935.29300	51.07934	564.98677	.68586	.78066	.85272	.79938	.89417	.96623
-5.0000	1934.35158	51.05967	564.75923	.67943	.77204	.84371	.78989	.88250	.95417
-5.0000	1934.81860	51.07553	564.94459	.67260	.76133	.83371	.77994	.86670	.93915
-5.0000	1934.05590	51.04761	564.63582	.66170	.74513	.81390	.76773	.85118	.91993
-5.0000	1934.12834	.00308	.00340	.00645	.00633	.00594	.00569	.00563	.00517

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500
ALPHA

BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
-5.0000	2547.37308	33.36888	508.60840	.50053	.63793	.75716	.63159	.76659	.88222
-5.0000	2547.81790	33.37489	508.70200	.51015	.65104	.77174	.64036	.78125	.90195
-5.0000	2545.94196	33.36394	508.53317	.52709	.66880	.78776	.65586	.79757	.91652
-5.0000	2547.50006	33.37128	508.64510	.54490	.68328	.79538	.67203	.81041	.92250
-5.0000	2547.17203	33.36708	508.58096	.57540	.70654	.81049	.70081	.83195	.93581
-5.0000	2551.36157	33.42099	509.40276	.59320	.71867	.82079	.71603	.84149	.94361
-5.0000	2555.54724	33.47640	510.24735	.60973	.73000	.82841	.73127	.85153	.94992
-5.0000	2558.82321	33.51929	510.89791	.62387	.74107	.83655	.74178	.85899	.95447
-5.0000	2563.65443	33.58292	511.87092	.63084	.74852	.84231	.74491	.86259	.95638
-5.0000	2567.71115	33.63562	512.67409	.63377	.74833	.83993	.74436	.85892	.95151
-5.0000	2572.39071	33.69739	513.61562	.63528	.74595	.83499	.74501	.85468	.94371
-5.0000	2578.11011	33.77192	514.75152	.62358	.73203	.81715	.72956	.83802	.92313
-5.0000	2578.93777	33.76332	514.92529	.61303	.71460	.79832	.71789	.81955	.90347
-5.0000	2578.10779	.00123	.01880	.00664	.00772	.00765	.00607	.00714	.00708

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7804) (02 AUG 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	P	OCOMP	Q42/OC	Q52/OC	Q62/OC	Q44/OC	Q54/OC	Q64/OC
.000	-2.00000	1574.43616	398.83030	1039.23260	.73812	.74925	.75057	.75057	.94240	.93353	.93495
2.000	-2.00000	1573.92516	398.70513	1038.90645	.74537	.75608	.76730	.76730	.94221	.93292	.93415
4.000	-2.00000	1573.05887	398.48754	1038.33945	.75344	.76448	.77344	.77344	.94354	.93458	.93554
6.000	-2.00000	1573.57761	398.62070	1039.66646	.76104	.77148	.78091	.78091	.94361	.93405	.93448
8.000	-2.00000	1574.31830	398.81203	1039.18500	.76791	.77502	.78418	.78418	.94578	.93593	.93555
10.000	-2.00000	1574.64066	398.88485	1039.37476	.76490	.77857	.79023	.79023	.94547	.93514	.93580
12.000	-2.00000	1574.64332	398.93706	1039.51079	.77147	.78493	.79721	.79721	.94661	.93661	.93689
14.000	-2.00000	1574.59084	398.87534	1039.34938	.78993	.79667	.80597	.80597	.94412	.93587	.93617
16.000	-2.00000	1575.31898	399.06065	1039.83284	.79368	.80264	.81690	.81690	.94992	.93753	.93753
18.000	-2.00000	1575.34929	399.06569	1039.84596	.79438	.80763	.82309	.82309	.95001	.93768	.93768
20.000	-2.00000	1574.16429	398.76549	1039.06374	.79636	.81133	.82505	.82505	.95011	.93711	.93711
22.000	-2.00000	1574.15891	398.76766	1039.06939	.79609	.81353	.82505	.82505	.94871	.93557	.93557
24.000	-2.00000	1574.84804	398.94400	1039.52830	.79951	.81603	.82766	.82766	.94801	.93489	.93489
GRADIENT	.00000	-3.4433	- .08559	- .22328	.00383	.00380	.00319	.00319	.00029	.00026	.00035

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	OCOMP	Q42/OC	Q52/OC	Q62/OC	Q44/OC	Q54/OC	Q64/OC
.000	-2.00000	1650.91153	310.07685	1067.69946	.71637	.74053	.76332	.76332	.90698	.93114	.93393
2.000	-2.00000	1652.84775	310.44413	1068.95416	.72410	.74818	.77002	.77002	.90855	.93447	.93447
4.000	-2.00000	1653.85585	310.63168	1069.60992	.72850	.75072	.77307	.77307	.91164	.93376	.93511
6.000	-2.00000	1654.30829	310.72412	1069.92824	.73526	.75597	.77700	.77700	.91546	.93617	.93719
8.000	-2.00000	1653.79941	310.62094	1069.57295	.74174	.76187	.78452	.78452	.91775	.93787	.93753
10.000	-2.00000	1654.31114	310.72391	1069.92749	.74063	.76754	.78890	.78890	.91101	.93531	.93534
12.000	-2.00000	1655.30827	310.90964	1070.56705	.74703	.77563	.79650	.79650	.90944	.93525	.93552
14.000	-2.00000	1655.65390	310.97399	1070.78859	.76072	.78337	.80016	.80016	.92697	.94355	.94377
16.000	-2.00000	1654.93356	310.83946	1070.32539	.77072	.78707	.80476	.80476	.92742	.94378	.94378
18.000	-2.00000	1655.58514	310.96767	1070.76688	.76468	.78853	.80560	.80560	.91654	.94078	.94078
20.000	-2.00000	1657.05319	311.24283	1071.71434	.76735	.79355	.81093	.81093	.91105	.93727	.93727
22.000	-2.00000	1657.68335	311.35872	1072.11337	.77413	.79858	.81720	.81720	.90938	.93382	.93382
24.000	-2.00000	1657.51353	311.32766	1072.00542	.77506	.79825	.81655	.81655	.90709	.93028	.93028
GRADIENT	.00000	.73609	.13871	.47761	.00306	.00255	.00244	.00244	.00116	.00065	.00054

(FE7804) (02 AUG 76)

PARAMETRIC DATA

BETA =
AILRON =
-2.000 ELEVON =
.000 BOFLAP =
.000

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RWKES.

REFERENCE DATA

SREF = 2590.0000 SQ. FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	-2.00000	1846.93443	235.90358	1094.69649	.70944	.75457	.79406	.89044	.93957	.97525
	2.000	-2.00000	1846.41615	235.83478	1094.37723	.71729	.76311	.80058	.88376	.93959	.97705
	4.000	-2.00000	1846.47842	235.84348	1094.41763	.72689	.76973	.80838	.89650	.93839	.97798
	6.000	-2.00000	1847.01898	235.91540	1094.75135	.73727	.78075	.81537	.90351	.94598	.98161
	8.000	-2.00000	1846.99838	235.91268	1094.73875	.74743	.78831	.82042	.90666	.94954	.98165
	10.000	-2.00000	1846.95093	235.91120	1094.73189	.75465	.79672	.82749	.91100	.95377	.98584
	12.000	-2.00000	1846.64995	235.86371	1094.53934	.75505	.79732	.83099	.90855	.95162	.98459
	14.000	-2.00000	1846.59160	235.85966	1094.49269	.77032	.80495	.83362	.91225	.95462	.98556
	16.000	-2.00000	1847.17949	235.94132	1094.87161	.77458	.80631	.83401	.91104	.94887	.97711
	18.000	-2.00000	1846.84877	235.89649	1094.66362	.77123	.80905	.83434	.90702	.94633	.97271
	20.000	-2.00000	1846.91461	235.88947	1094.62637	.77156	.80915	.83675	.90030	.93775	.96536
	22.000	-2.00000	1847.35541	235.95847	1094.95123	.77169	.80915	.83675	.90030	.93775	.96536
	24.000	-2.00000	1846.82295	235.78710	1094.15599	.78006	.81593	.84277	.90032	.93724	.96503
GRADIENT		.00000	-.11399	-.01502	-.06971	.00436	.00380	.00358	.00151	.00096	.00073

MACH = 2.250	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	-2.00000	2066.32037	178.19294	1069.48225	.72324	.79822	.85143	.87776	.95268	.97502
	2.000	-2.00000	2059.98480	178.16426	1069.31013	.72908	.80418	.85857	.87967	.95477	.97516
	4.000	-2.00000	2059.56003	178.12785	1069.09151	.73572	.81061	.85968	.88344	.95232	.97337
	6.000	-2.00000	2060.01712	178.15692	1069.32510	.74537	.81075	.85180	.88330	.95657	.97973
	8.000	-2.00000	2060.34868	178.19534	1069.44557	.75500	.81954	.86587	.90043	.96497	.98139
	10.000	-2.00000	2060.24548	178.18548	1069.44347	.77078	.83007	.87661	.91362	.97291	.98477
	12.000	-2.00000	2060.24661	178.18653	1069.44347	.77620	.83189	.87492	.91734	.97302	.98166
	14.000	-2.00000	2060.47052	178.20613	1069.56143	.78528	.83770	.87683	.92332	.97574	.98487
	16.000	-2.00000	2060.56383	178.21377	1069.60732	.78959	.84027	.87830	.92353	.97421	.98123
	18.000	-2.00000	2060.03516	178.16844	1069.33524	.79697	.84292	.87950	.92084	.97259	.98218
	20.000	-2.00000	2060.44046	178.20315	1069.54353	.79521	.83818	.87351	.90799	.96095	.96629
	22.000	-2.00000	2060.15353	178.17854	1069.39586	.79529	.84672	.88246	.91592	.96735	.97359
	24.000	-2.00000	2060.04486	178.16928	1069.34026	.79251	.84299	.87851	.90928	.96199	.96883
GRADIENT		.00000	-.19239	-.01627	-.09757	.00312	.00160	.00206	.00143	-.00039	.00037

(FETECH) (02 AUG 78)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.179

TABULATED DATA - 0A161 (ARC 11-97-87-09A)
ARC 11-97-87-09A 0A161 ORBITER + RAKES

REFERENCE DATA

S.F. = 2690.0000 IN. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.3800 IN. ZMRP = 373.0000 IN. ZO
SCALE = .0300

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	OCOMP	0A2/OC	062/OC	0A4/OC	064/OC	084/OC
	.000	-2.00000	1497.77222	87.59769	659.27209	.67157	.76808	.83284	.92875	.98869
	2.000	-2.00000	1497.76450	87.59732	659.26928	.67487	.77455	.83328	.92936	1.00101
	4.000	-2.00000	1497.75714	87.59741	659.27001	.69065	.78331	.84605	.93872	1.00989
	6.000	-2.00000	1497.74226	87.59619	659.26081	.70464	.79554	.86264	.94927	1.01537
	8.000	-2.00000	1497.73372	87.59682	659.26557	.72166	.80622	.87235	.95591	1.01835
	10.000	-2.00000	1497.72010	87.59167	659.22676	.73157	.81016	.87055	.95795	1.01845
	12.000	-2.00000	1498.01534	87.61195	659.37941	.74442	.82119	.87974	.96616	1.02202
	14.000	-2.00000	1494.68498	87.41497	657.89693	.75458	.83060	.89339	.97956	1.01940
	16.000	-2.00000	1494.60895	87.41100	657.86705	.76102	.83079	.89644	.98355	1.01344
	18.000	-2.00000	1495.08078	87.43912	658.07867	.76400	.83074	.89438	.98455	1.01465
	20.000	-2.00000	1494.25939	87.38984	657.70778	.76437	.82874	.89401	.98491	.99341
	22.000	-2.00000	1494.70457	87.41660	657.50915	.76189	.82275	.88679	.97317	.95557
	24.000	-2.00000	1494.34550	87.43099	658.01747	.76095	.81828	.87983	.96917	.95557
GRADIENT		.00000	-.00127	-.00007	-.00052	.00477	.00381	.00345	.00249	.00282

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	OCOMP	0A2/OC	052/OC	0A4/OC	062/OC	084/OC
	.000	-2.00000	1942.79845	51.29598	567.38300	.62979	.77160	.78371	.87816	1.03208
	2.000	-2.00000	1939.95528	51.22303	566.57606	.63726	.77982	.79054	.88667	1.03994
	4.000	-2.00000	1937.25540	51.15163	565.78629	.64866	.78898	.79843	.89235	1.04312
	6.000	-2.00000	1932.01018	51.02006	564.33104	.66892	.80560	.81921	.90417	1.05456
	8.000	-2.00000	1931.75623	51.01216	564.24371	.69497	.82161	.84115	.92845	1.06033
	10.000	-2.00000	1932.19310	51.02143	564.34621	.71200	.83283	.85553	.94780	1.06847
	12.000	-2.00000	1932.51784	51.02796	564.41837	.72493	.83878	.86476	.95661	1.06541
	14.000	-2.00000	1931.30788	50.98654	563.96033	.74225	.85112	.88044	.96931	1.07193
	16.000	-2.00000	1932.10713	51.00135	564.17945	.75527	.86134	.89356	.98563	1.07212
	18.000	-2.00000	1931.43526	50.93056	564.00479	.76210	.86271	.89154	.98216	1.06470
	20.000	-2.00000	1931.86769	50.99784	564.08523	.76536	.86211	.89129	.98504	1.05975
	22.000	-2.00000	1932.01346	51.00587	564.17412	.75902	.85052	.87974	.97224	1.04127
	24.000	-2.00000	1931.72012	50.99329	564.10132	.74974	.83711	.86786	.95522	1.02558
GRADIENT		.00000	-1.38574	-.03609	-.39918	.00472	.00432	.00393	.00353	.00276

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PAGE 595

(FE7804) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIIRON =

-2.000 ELEVON = .000
.000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500

ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
0.000	-2.00000	2603.07135	34.16512	520.74471	.56961	.74506	.87765	.71716	.89262	1.02521
2.000	-2.00000	2609.47937	34.19432	521.03742	.58072	.75527	.89137	.72770	.90225	1.03934
4.000	-2.00000	2610.52899	34.19799	521.24570	.59879	.77128	.93303	.74332	.91641	1.04816
6.000	-2.00000	2614.11072	34.24500	521.96236	.61916	.78464	.90971	.75332	.92900	1.05397
8.000	-2.00000	2614.27722	34.24722	521.99606	.64969	.80372	.92327	.79281	.94425	1.06441
10.000	-2.00000	2619.19357	34.31230	522.98805	.67114	.82082	.93588	.80984	.95933	1.07459
12.000	-2.00000	2615.71823	34.26563	522.27669	.69259	.83465	.94537	.82611	.97037	1.08090
14.000	-2.00000	2617.89397	34.29432	522.71407	.71128	.84772	.95082	.84450	.98084	1.08394
16.000	-2.00000	2615.78174	34.26626	522.28642	.72342	.85676	.95247	.85169	.98203	1.08715
18.000	-2.00000	2617.10403	34.28431	522.56139	.73082	.86731	.94905	.85461	.98110	1.07284
20.000	-2.00000	2615.61575	34.26406	522.25275	.73365	.85354	.94483	.85477	.97606	1.06535
22.000	-2.00000	2619.49893	34.31532	523.04351	.72525	.84180	.92978	.84325	.95991	1.04779
24.000	-2.00000	2624.04565	34.37497	523.94358	.71355	.82371	.91634	.82747	.93752	1.03015
GRADIENT	.00000	.61442	.00222	.12524	.00730	.00355	.00635	.00559	.00995	.00574

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TABULATED DATA - OA161 (ARC 11-97-87-094)
 ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2693.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = 0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 SCFLAP = -7.770

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	P	QCOMP	Q42/OC	Q52/OC	Q54/OC	Q54/CC	Q54/CC
.600	.0000	.0000	2635.13434	2067.15993	568.95451	.94828	.95340	.94940	1.15733	1.15622
.000	.0000	.0000	2635.42592	2057.42532	569.02753	.94388	.94282	.94288	1.13826	1.13822
2.000	.0000	.0000	2638.36844	2059.84036	569.52803	.94977	.94934	.94934	1.14471	1.14329
4.000	.0000	.0000	2635.83572	2057.04514	568.79053	.94665	.94586	.94586	1.12516	1.12418
6.000	.0000	.0000	2635.20716	2057.24875	568.95142	.94444	.94546	.94546	1.12339	1.12318
8.000	.0000	.0000	2635.93434	2057.10458	568.83035	.94637	.94534	.94534	1.12339	1.12318
10.000	.0000	.0000	2635.46513	2055.78952	568.67651	.94270	.94119	.94119	1.12339	1.12318
12.000	.0000	.0000	2635.11769	2057.19876	568.81691	1.00724	1.00771	1.00771	1.12339	1.12318
14.000	.0000	.0000	2635.09533	2057.16296	568.92236	1.04312	1.04312	1.04312	1.12339	1.12318
16.000	.0000	.0000	2636.09533	2059.99408	568.61655	1.06228	1.06228	1.06228	1.12339	1.12318
18.000	.0000	.0000	2636.61053	2066.12332	568.35559	1.10551	1.10551	1.10551	1.12339	1.12318
20.000	.0000	.0000	2634.47231	2062.55417	567.55264	1.13391	1.13391	1.13391	1.12339	1.12318
22.000	.0000	.0000	2630.10551	2062.55417	567.94977	1.17613	1.17613	1.17613	1.12339	1.12318
24.000	.0000	.0000	2629.67341	2061.72364	567.94977	1.17613	1.17613	1.17613	1.12339	1.12318
GRADIENT			.55853	.41762	.14089	.00084	.0006	.00026	.00315	.00336

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	P	QCOMP	Q42/OC	Q52/OC	Q54/OC	Q54/CC	Q54/CC
.900	.0000	.0000	2113.92109	1249.92923	864.05185	.82279	.82276	.82276	1.05557	1.05577
.000	.0000	.0000	2112.05286	1248.77356	863.27893	.81022	.81095	.81095	1.03921	1.03750
2.000	.0000	.0000	2118.18239	1252.35219	865.83621	.81872	.81852	.81852	1.02953	1.02934
4.000	.0000	.0000	2114.64374	1250.29312	864.34464	.81708	.81745	.81745	1.01000	1.00970
6.000	.0000	.0000	2110.03122	1247.57354	862.45758	.81903	.82099	.82099	.99421	.99544
8.000	.0000	.0000	2112.73351	1249.11799	863.61572	.83378	.83407	.83407	.99421	.99544
10.000	.0000	.0000	2113.69935	1250.25939	864.43933	.85453	.85453	.85453	.99421	.99544
12.000	.0000	.0000	2111.13377	1251.72224	865.41354	.87065	.87065	.87065	.99421	.99544
14.000	.0000	.0000	2116.02139	1251.05811	864.96329	.88856	.88856	.88856	.99421	.99544
16.000	.0000	.0000	2113.25510	1249.47333	863.82172	.91119	.91291	.91291	.99421	.99544
18.000	.0000	.0000	2111.35150	1248.25099	863.10052	.94025	.94249	.94249	1.00959	1.00939
20.000	.0000	.0000	2110.78241	1247.85742	862.92499	.97157	.97481	.97481	1.02169	1.02169
22.000	.0000	.0000	2113.14288	1249.36358	863.75931	.99353	1.00642	1.00642	1.03312	1.03490
24.000	.0000	.0000	1.05184	.60574	.44609	.00102	.00036	.00026	.00573	.00551

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7805) (02 AUG 75)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAR = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	.00000	2003.78401	828.63679	1166.30751	.71743	.71702	.71672	.90348	.90307	.90277
	2.000	.00000	2005.93002	827.95351	1165.34581	.72236	.72321	.72255	.90581	.90666	.90600
	4.000	.00000	2006.95340	827.74990	1165.05922	.72382	.72453	.72464	.88766	.88777	.88777
	6.000	.00000	2012.21327	829.46896	1167.47879	.73206	.73266	.73405	.88853	.89973	.89052
	8.000	.00000	2011.68602	829.32592	1167.27747	.73943	.73918	.74072	.89228	.89302	.89457
	10.000	.00000	2012.05740	829.42208	1167.41281	.74552	.74590	.74695	.91754	.91792	.91937
	12.000	.00000	2012.68650	829.63939	1167.71867	.75747	.75779	.75796	.93705	.93738	.93754
	14.000	.00000	2012.78661	829.69245	1167.79337	.76896	.76895	.76897	.93874	.93863	.93875
	16.000	.00000	2011.04118	829.14474	1167.02246	.78462	.78440	.78446	.94503	.94481	.94488
	18.000	.00000	2012.20630	829.51370	1167.54176	.80417	.80457	.80491	.95140	.95180	.95214
	20.000	.00000	2018.50417	831.53033	1170.38017	.81934	.81985	.82097	.95325	.95377	.95428
	22.000	.00000	2017.94966	831.40863	1170.20888	.83391	.83373	.83466	.95602	.95693	.95687
	24.000	.00000	2014.63448	830.32520	1168.68396	.84507	.8462	.84628	.96375	.96480	.96496
GRADIENT		.00000	-.70766	-.22172	-.31207	.00160	.00188	.00198	-.00413	-.00395	-.00375

MACH = 1.400	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	.00000	2043.25790	642.23148	1316.08347	.70717	.71313	.72211	.91914	.92511	.93409
	2.000	.00000	2048.25000	643.57805	1318.84294	.71617	.71944	.72721	.92122	.92449	.93227
	4.000	.00000	2046.36710	643.02779	1317.71530	.72405	.72438	.73199	.91955	.91988	.92748
	6.000	.00000	2036.66442	640.56650	1312.67154	.72587	.72893	.73737	.91314	.91620	.92464
	8.000	.00000	2036.48167	640.58681	1312.71315	.73527	.73738	.74580	.91396	.91608	.92449
	10.000	.00000	2037.06380	640.77697	1313.10286	.74377	.74509	.75509	.91468	.91899	.92599
	12.000	.00000	2032.87712	639.62427	1310.74069	.75342	.75587	.76190	.91926	.92171	.92775
	14.000	.00000	2034.53185	640.07636	1311.66714	.76520	.76556	.77259	.92226	.92261	.92965
	16.000	.00000	2038.71129	641.14881	1313.86484	.77006	.77472	.78666	.91867	.92332	.93080
	18.000	.00000	2034.88971	640.10445	1311.72469	.77228	.77992	.78666	.91642	.92503	.93141
	20.000	.00000	2029.02078	638.64844	1308.74098	.77983	.78732	.79370	.91754	.92503	.93141
	22.000	.00000	2029.79141	639.90320	1309.26305	.78895	.79807	.80394	.92093	.93015	.93632
	24.000	.00000	2028.09665	638.45732	1308.36984	.79029	.80035	.80582	.92176	.93152	.93730
GRADIENT		.00000	.77728	.19908	.40796	.00422	.00231	.00247	.00010	-.00131	-.00165

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(FE7805) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	P	QCOMP	Q42/OC	Q52/OC	Q62/OC	Q44/OC	Q54/OC	Q64/OC
	.0000	.00000	1503.54596	401.10619	1045.16287	.71902	.73082	.74254	.93407	.94586	.95758
	2.000	.00000	1581.96228	401.46597	1046.11082	.72567	.73719	.74888	.93460	.94613	.95782
	4.000	.00000	1581.60326	401.36976	1045.84969	.73324	.74363	.75348	.93445	.94485	.95469
	6.000	.00000	1581.71835	401.39628	1045.91879	.73960	.74961	.75894	.93391	.94393	.95284
	8.000	.00000	1592.28792	401.54744	1046.31267	.74973	.75754	.76704	.93614	.94535	.95445
	10.000	.00000	1584.01578	401.96475	1047.40005	.75657	.76313	.77241	.93669	.94325	.95254
	12.000	.00000	1584.74577	402.14309	1047.86478	.76378	.76510	.77649	.93940	.94919	.95019
	14.000	.00000	1584.30254	402.03269	1047.57710	.76579	.77409	.78286	.94242	.94949	.94949
	16.000	.00000	1584.53708	402.09357	1047.73572	.77745	.78332	.79011	.94541	.94949	.94917
	18.000	.00000	1595.24020	402.26379	1048.17926	.77617	.78407	.79304	.93931	.94729	.94729
	20.000	.00000	1585.26917	402.27295	1048.20312	.77468	.78457	.79516	.93536	.94565	.94565
	22.000	.00000	1584.67165	402.12355	1047.91384	.77866	.79068	.80090	.93758	.94758	.94758
	24.000	.00000	1584.25276	402.01530	1047.53178	.78708	.79866	.80715	.93498	.94676	.94505
	GRADIENT		.25428	.06590	.17171	.00355	.00350	.00273	.00010	-.00025	-.00372

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	QCOMP	Q42/OC	Q52/OC	Q62/OC	Q44/OC	Q54/OC	Q64/OC
	.0000	.00000	1657.74608	311.37225	1072.15997	.71017	.73398	.75547	.91097	.93478	.95527
	2.000	.00000	1657.99976	311.41864	1072.31970	.71847	.74343	.76395	.91103	.93599	.95651
	4.000	.00000	1657.20947	311.27179	1071.81404	.72541	.74842	.76866	.91453	.93755	.95779
	6.000	.00000	1656.47336	311.13422	1071.34035	.73147	.75343	.77131	.91854	.94050	.95836
	8.000	.00000	1657.27676	311.28436	1071.85733	.73718	.75872	.77600	.91838	.93932	.95720
	10.000	.00000	1657.32759	311.29292	1071.88681	.74665	.76460	.78182	.92192	.93866	.95709
	12.000	.00000	1655.50393	311.14008	1071.36053	.74947	.77354	.79267	.91465	.93272	.95795
	14.000	.00000	1657.07622	311.24621	1071.72593	.76197	.77852	.79430	.92512	.94166	.95744
	16.000	.00000	1656.50485	311.15869	1071.42461	.77094	.78381	.79803	.93021	.94307	.95730
	18.000	.00000	1656.32849	311.10677	1071.24582	.77264	.78984	.80495	.92446	.93965	.95457
	20.000	.00000	1655.60373	311.19482	1071.54903	.77703	.79937	.81502	.91639	.93973	.95437
	22.000	.00000	1657.27647	311.28266	1071.85149	.77496	.79896	.81504	.91197	.93597	.95205
	24.000	.00000	1657.16254	311.26139	1071.77823	.77337	.79593	.81224	.90720	.92976	.94637
	GRADIENT		-.13413	-.02512	-.08649	.00381	.00361	.00330	.00089	.00069	.00038

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000

ALPHA	BETA	PT	P	QCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
.000	.00000	1847.14075	235.84824	1094.43971	.71738	.76352	.80121	.90385	.95019	.98778
2.000	.00000	1846.77534	235.80064	1094.21821	.72463	.77168	.80823	.90777	.95482	.99137
4.000	.00000	1847.06482	235.83535	1094.37987	.73150	.77804	.81425	.90865	.95318	.99139
6.000	.00000	1846.70287	235.79072	1094.17278	.74086	.78508	.81956	.91460	.95881	.99329
8.000	.00000	1846.84723	235.80916	1094.25836	.74697	.78831	.82131	.91791	.95925	.99225
10.000	.00000	1847.73077	235.93651	1094.84930	.75891	.79745	.82821	.92361	.96215	.99290
12.000	.00000	1847.06197	235.84271	1094.41403	.76374	.80405	.83315	.92443	.96474	.99385
14.000	.00000	1846.76268	235.79962	1094.21408	.77314	.81136	.83949	.92871	.96593	.99506
16.000	.00000	1846.78920	235.81072	1094.26558	.78203	.81900	.83675	.93475	.96372	.98947
18.000	.00000	1846.62433	235.78563	1094.14917	.78602	.81710	.84117	.93433	.96541	.98948
20.000	.00000	1846.85009	235.81953	1094.30649	.78579	.82005	.84564	.92842	.96168	.98727
22.000	.00000	1846.82697	235.81627	1094.29134	.78480	.82123	.84787	.91965	.95608	.98273
24.000	.00000	1845.84973	235.68645	1093.68892	.78780	.82494	.85026	.91559	.95273	.97884
GRADIENT	.00000	-0.01898	-0.00322	-0.01495	.00353	.00311	.00326	.00117	.00075	.00090

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(FE7805) (02 AUG 75)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

MACH = 2.250

ALPHA	BETA	PT	P	QCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
.000	.00000	2059.62274	178.13523	1068.13588	.77712	.79392	.84553	.89167	.95847	.98700
2.000	.00000	2059.69022	178.14101	1068.17059	.78238	.79995	.85350	.89864	.97121	1.02888
4.000	.00000	2059.24142	178.10249	1068.93941	.73051	.80102	.85653	.90884	.96935	1.02475
6.000	.00000	2059.67896	178.13985	1069.16425	.74157	.80980	.86179	.90773	.97596	1.02795
8.000	.00000	2059.63947	178.13654	1069.14375	.75244	.82018	.86694	.91449	.98222	1.02858
10.000	.00000	2059.11798	178.09175	1068.87497	.76562	.82851	.87261	.92445	.98733	1.03144
12.000	.00000	2058.74341	178.05964	1068.68224	.77323	.83189	.87278	.93027	.98891	1.02982
14.000	.00000	2059.55093	178.12881	1069.09737	.78291	.83616	.87556	.93637	.99962	1.02962
16.000	.00000	2059.36752	178.11318	1069.00357	.79185	.84132	.87683	.93932	.99800	1.02430
18.000	.00000	2058.83890	178.06788	1068.73170	.79803	.84656	.88125	.93944	.98798	1.02268
20.000	.00000	2059.20343	178.09993	1068.91862	.79369	.84278	.87763	.93410	.97763	1.01410
22.000	.00000	2058.94348	178.07670	1068.78462	.80310	.85226	.88852	.93502	.98418	1.02044
24.000	.00000	2058.85312	178.06898	1068.73825	.74783	.79916	.83668	.85564	.91687	.95450
GRADIENT	.00000	-0.09532	-0.00818	-0.04911	.00333	.00178	.00275	.00179	.00022	.00119

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OF POOR QUALITY

TABULATED DATA - OA161 (ARC 11-97-87-094)

PAGE 500

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7805) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500

ALPHA	BETA	PT	P	QCOMP	052/OC	062/OC	044/OC	054/OC	064/OC
0.000	0.0000	1495.02940	87.42978	658.00838	.78888	.86963	.86634	.96929	1.03902
2.000	0.0000	1495.07198	87.43218	658.02643	.80395	.87243	.86996	.97040	1.03888
4.000	0.0000	1494.35016	87.38912	657.70233	.80781	.88042	.87883	.97389	1.04650
6.000	0.0000	1494.94654	87.42504	657.97271	.81882	.89818	.88437	.98153	1.05089
8.000	0.0000	1495.11034	87.43430	658.04683	.82942	.89304	.89823	.98045	1.05408
10.000	0.0000	1494.33298	87.38847	657.69749	.83593	.89803	.90915	.98045	1.05408
12.000	0.0000	1494.98853	87.42791	657.99431	.84848	.90492	.91999	.98427	1.05637
14.000	0.0000	1494.32796	87.38815	657.69506	.85734	.90829	.91803	1.00729	1.05825
16.000	0.0000	1494.89258	87.42212	657.95069	.86887	.90478	.93562	1.00572	1.05163
18.000	0.0000	1494.35973	87.39025	657.71090	.87977	.90951	.93969	1.00652	1.05122
20.000	0.0000	1494.85466	87.41989	657.93397	.88233	.90845	.93853	1.00103	1.04715
22.000	0.0000	1494.36290	87.39047	657.71252	.89560	.90341	.92971	.98999	1.03790
24.000	0.0000	1494.88579	87.42173	657.94775	.89460	.90343	.92467	.98322	1.03205
GRADIENT	0.0000	-.16982	-.01016	-.07650	.00223	.00295	.00262	.00115	.00187

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000

ALPHA	BETA	PT	P	QCOMP	052/OC	062/OC	044/OC	054/OC	064/OC
0.000	0.0000	1940.57863	51.17667	565.06326	.83358	.94072	.84466	1.00276	1.10989
2.000	0.0000	1940.33086	51.16886	565.97688	.83921	.95106	.85311	1.00754	1.11940
4.000	0.0000	1939.42018	51.14571	565.72091	.84761	.95881	.86342	1.01387	1.12507
6.000	0.0000	1939.65381	51.15674	565.84290	.86334	.96797	.87834	1.02690	1.13153
8.000	0.0000	1938.91023	51.13770	565.63232	.87521	.97204	.89937	1.03653	1.13236
10.000	0.0000	1939.71490	51.16037	565.88296	.88634	.97861	.91252	1.04266	1.13493
12.000	0.0000	1939.08339	51.14639	565.72841	.90233	.98620	.92888	1.05477	1.13814
14.000	0.0000	1939.37943	51.15133	565.78307	.91255	.99004	.94142	1.06209	1.13947
16.000	0.0000	1938.79555	51.13805	565.63618	.91650	.99155	.95117	1.06196	1.13691
18.000	0.0000	1939.37152	51.15323	565.80401	.91728	.99023	.95337	1.05707	1.13001
20.000	0.0000	1939.61790	51.16009	565.87995	.91428	.98801	.95449	1.05002	1.12376
22.000	0.0000	1938.80849	51.13827	565.63856	.90245	.97683	.94081	1.03288	1.10726
24.000	0.0000	1939.35316	51.15332	565.80502	.90126	.97828	.93973	1.02733	1.10434
GRADIENT	0.0000	-.28961	-.00774	-.08559	.00331	.00452	.00469	.00278	.00379

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500	ALPHA	BETA	PT	P	OCOMP	0A2/OC	052/OC	062/OC	0A4/OC	054/OC	064/OC
	.000	.00000	2633.31985	34.57549	526.99953	.62572	.82024	.96134	.78435	.97888	1.11987
	2.000	.00000	2640.01666	34.58445	527.13517	.63385	.82554	.97246	.79212	.98381	1.13073
	4.000	.00000	2640.99996	34.59589	527.31057	.63261	.84133	.98012	.80910	.99782	1.13661
	6.000	.00000	2644.64435	34.64481	528.05621	.66976	.85211	.98725	.82453	1.00688	1.14202
	8.000	.00000	2646.62357	34.67127	528.45953	.70526	.87767	1.00110	.85637	1.02877	1.15220
	10.000	.00000	2646.80231	34.67362	528.49525	.72901	.89440	1.00985	.87772	1.04310	1.15856
	12.000	.00000	2647.35554	34.68086	528.60566	.75028	.90984	1.01486	.89454	1.05410	1.15912
	14.000	.00000	2652.42508	34.74652	529.60644	.76855	.91845	1.02027	.90918	1.05907	1.16090
	16.000	.00000	2653.07376	34.75490	529.73420	.78746	.92722	1.02598	.92373	1.06349	1.16225
	18.000	.00000	2650.25250	34.71994	529.18607	.79068	.92211	1.01884	.92275	1.05418	1.15091
	20.000	.00000	2651.57239	34.73560	529.43997	.79386	.91700	1.01560	.92244	1.04557	1.14418
	22.000	.00000	2652.55411	34.74832	529.53383	.79989	.90490	1.00529	.91339	1.02831	1.12879
	24.000	.00000	2651.96234	34.74070	529.51771	.78009	.89216	.99484	.90053	1.01261	1.11529
	GRADIENT	.00000	.39504	.00510	.07776	.00672	.00537	.00470	.00619	.00474	.00416

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7B06) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
ALPHA	2.00000	2628.08527	2060.85532	567.22995	.92512	.92573	.92528	1.14903	1.14964	1.14919
.000	2.00000	2625.49564	2058.85480	566.64084	.88700	.88813	.88721	1.10776	1.10889	1.10797
2.000	2.00000	2627.76624	2060.48969	567.27655	.88001	.88219	.88219	1.09967	1.10165	1.10184
4.000	2.00000	2627.00054	2059.99554	567.00510	.90744	.90815	.90803	1.11381	1.11453	1.11441
6.000	2.00000	2626.97894	2060.00323	566.97571	.93186	.93095	.93257	1.11652	1.11503	1.11653
8.000	2.00000	2626.30542	2059.42654	566.87888	.94769	.94708	.94908	1.11481	1.11390	1.11552
10.000	2.00000	2626.31223	2059.44074	566.83148	.96888	.97009	.97094	1.11527	1.11256	1.11455
12.000	2.00000	2628.99167	2061.44455	567.54712	.99728	.99812	.99903	1.12449	1.12532	1.12623
14.000	2.00000	2627.44873	2060.24384	567.20490	1.02961	1.02977	1.03145	1.13481	1.13495	1.13554
16.000	2.00000	2626.31006	2059.46307	566.84638	1.06830	1.07004	1.07207	1.15200	1.15373	1.15577
18.000	2.00000	2626.65659	2059.71997	566.93661	1.10453	1.11075	1.10990	1.16780	1.17332	1.17317
20.000	2.00000	2624.28891	2057.95145	566.33746	1.13492	1.14631	1.14572	1.17617	1.18746	1.18697
22.000	2.00000	2623.73047	2057.53900	566.19147	1.14631	1.14631	1.14631	1.17617	1.18746	1.18697
24.000	2.00000	2623.73047	2057.53900	566.19147	1.14631	1.14631	1.14631	1.17617	1.18746	1.18697
GRADIENT	.00000	-.07975	-.09139	.01165	-.01128	-.01033	-.01077	-.01234	-.01200	-.01184

MACH = .900	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
ALPHA	2.00000	2112.48575	1248.91620	863.56955	.77100	.77106	.77078	1.02925	1.02931	1.02903
.000	2.00000	2115.92145	1251.04158	864.87988	.76814	.76698	.76618	1.01165	1.01048	1.00969
2.000	2.00000	2119.15109	1252.90967	866.24142	.77042	.77116	.77039	1.00152	1.00225	1.00149
4.000	2.00000	2117.58701	1251.97867	865.60834	.76960	.77008	.77023	.98532	.98580	.98595
6.000	2.00000	2114.79404	1250.37154	864.42252	.77296	.77323	.77288	.97585	.97611	.97577
8.000	2.00000	2119.07846	1252.94972	866.12875	.78793	.78822	.78795	.96721	.96750	.96723
10.000	2.00000	2115.97958	1251.07672	864.90285	.80154	.80155	.80183	.96366	.96367	.96395
12.000	2.00000	2114.68259	1250.28664	864.39557	.81683	.81701	.81705	.96272	.96290	.96295
14.000	2.00000	2115.92549	1251.61702	865.28848	.84064	.84156	.84091	.96740	.96832	.96767
16.000	2.00000	2117.39859	1251.88719	865.51141	.86780	.86961	.86864	.97350	.97540	.97443
18.000	2.00000	2115.91061	1251.01956	864.89105	.89344	.89473	.89369	.97983	.98112	.98038
20.000	2.00000	2110.44638	1247.78032	862.66608	.91882	.92121	.92104	.98835	.99075	.99057
22.000	2.00000	2109.08810	1245.91112	862.17700	.94565	.95373	.95431	.98944	.99753	.99811
24.000	2.00000	2109.08810	1245.91112	862.17700	.94565	.95373	.95431	.98944	.99753	.99811
GRADIENT	.00000	1.66636	.99836	.66797	-.00014	.00032	-.00010	-.00693	-.00676	-.00589

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7B06) (02 AUG 75)

REFERENCE DATA

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
1.200	.000	2.00000	2003.55424	828.76637	1166.48990	.67933	.67976	.67982	.87552	.87594	.87630
	2.000	2.00000	2008.90266	828.44971	1166.04420	.67741	.67765	.67896	.87501	.87524	.87556
	4.000	2.00000	2009.08081	829.45160	1165.04684	.68330	.68390	.68520	.86736	.86795	.86825
	6.000	2.00000	2012.49275	829.60759	1167.67350	.69010	.69102	.69107	.85904	.85995	.86031
	8.000	2.00000	2012.15798	829.57092	1167.62230	.69502	.69539	.69572	.86709	.86735	.86879
	10.000	2.00000	2011.92180	829.36009	1167.32553	.70317	.70337	.70434	.86709	.86735	.86879
	12.000	2.00000	2013.54626	829.94049	1168.14247	.71392	.71467	.71507	.91130	.91205	.91245
	14.000	2.00000	2015.19850	830.40101	1168.79065	.72720	.72793	.72837	.91037	.91110	.91154
	16.000	2.00000	2013.69295	829.94411	1168.14755	.74254	.74328	.74364	.90899	.90963	.90998
	18.000	2.00000	2013.23676	829.86232	1168.03244	.75956	.76030	.76134	.91750	.91873	.91928
	20.000	2.00000	2017.18059	830.97342	1169.59631	.77722	.77835	.77926	.92426	.92559	.92630
	22.000	2.00000	2019.10937	831.89906	1170.99917	.79122	.79239	.79365	.92525	.92662	.92769
	24.000	2.00000	2020.01411	832.02087	1171.57062	.80186	.80430	.80508	.93072	.93346	.93384
GRADIENT		.00000	-1.11837	-3.7669	-1.11077	.00099	.00104	.00135	-.00204	-.00200	-.00169

MACH	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
1.400	.000	2.00000	2044.20187	642.54803	1316.73218	.68866	.69463	.70286	.90956	.91553	.92376
	2.000	2.00000	2046.48904	643.12830	1317.92126	.68436	.69780	.70565	.91003	.91346	.92131
	4.000	2.00000	2041.44493	641.78355	1315.16579	.70260	.70294	.71008	.90711	.90745	.91459
	6.000	2.00000	2044.57449	642.62568	1316.89333	.70804	.70993	.71756	.90355	.90554	.91317
	8.000	2.00000	2040.79663	641.70628	1315.00722	.71386	.71547	.72235	.90202	.90363	.91051
	10.000	2.00000	2035.77562	640.44118	1312.41475	.72329	.72534	.73210	.90397	.90651	.91285
	12.000	2.00000	2036.94429	640.72521	1312.93680	.73093	.73464	.74031	.90974	.90974	.91541
	14.000	2.00000	2039.56587	641.42471	1314.43022	.74241	.74432	.74949	.90793	.90884	.91501
	16.000	2.00000	2039.80769	641.40276	1314.38522	.75370	.75488	.76135	.90325	.90442	.91690
	18.000	2.00000	2039.32877	641.26414	1314.10118	.75521	.75938	.76614	.90567	.90833	.91660
	20.000	2.00000	2033.61595	639.92600	1311.35902	.76002	.76302	.76550	.90047	.90111	.91260
	22.000	2.00000	2023.59159	637.9749	1305.76765	.76741	.76903	.77074	.90134	.90196	.91456
	24.000	2.00000	2021.60355	636.67937	1304.70592	.76332	.76553	.77820	.90114	.90146	.91632
GRADIENT		.00000	-1.68321	-1.9109	-1.39160	.00349	.00208	.00181	-.00061	-.00202	-.00229

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7B06) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 ZREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	BETA	PT	P	QCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
ALPHA	2.0000	1568.49995	397.96504	1036.97801	.69310	.70474	.71535	.91542	.92707	.93767
0.000	2.0000	1570.76030	398.53608	1038.46595	.69917	.71065	.72066	.91348	.92496	.93497
2.000	2.0000	1572.20036	398.86619	1039.32613	.70737	.71878	.72763	.91609	.92749	.93535
4.000	2.0000	1573.37077	399.90957	1039.43915	.71570	.72736	.73579	.91392	.92618	.93402
6.000	2.0000	1573.70795	399.25253	1040.33262	.72481	.73536	.74278	.91573	.92599	.93370
8.000	2.0000	1573.65640	399.24512	1040.31351	.73232	.74131	.74865	.91686	.92605	.93320
10.000	2.0000	1572.64693	398.98661	1039.63951	.74050	.74834	.75544	.91864	.92638	.93358
12.000	2.0000	1572.69780	399.00035	1039.67572	.74371	.75159	.75846	.91413	.92201	.93089
14.000	2.0000	1572.12041	398.84843	1039.27986	.74967	.75614	.76279	.91626	.92274	.93139
16.000	2.0000	1572.12041	398.84843	1039.27986	.75689	.76234	.76895	.91808	.92373	.93104
18.000	2.0000	1571.97598	398.81422	1040.19070	.76047	.76634	.77277	.91811	.92397	.93240
20.000	2.0000	1574.13762	399.36440	1040.62433	.76248	.76833	.77581	.91937	.92432	.93171
22.000	2.0000	1576.42464	399.93516	1042.11156	.76677	.77255	.77765	.92031	.92519	.93120
24.000	2.0000	1576.93555	400.08383	1042.43995	.00357	.00351	.00307	.00017	.00011	.00033
GRADIENT	.00000	.92511	.22529	.58703						

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	BETA	PT	P	QCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
ALPHA	2.0000	1656.77100	311.18817	1071.52611	.69676	.72026	.73909	.90994	.93345	.95228
0.000	2.0000	1655.31691	310.91837	1070.59709	.70289	.72635	.74476	.91235	.93582	.95423
2.000	2.0000	1655.46957	310.94656	1070.69418	.70984	.73436	.75215	.91297	.93749	.95527
4.000	2.0000	1655.59386	310.97010	1070.77524	.71547	.73753	.7547	.91417	.93824	.95417
6.000	2.0000	1656.17558	311.07782	1071.14615	.72035	.74259	.75939	.91470	.93694	.95374
8.000	2.0000	1656.23152	311.08652	1071.18300	.73278	.74880	.76795	.91944	.93546	.95465
10.000	2.0000	1656.29275	311.09945	1071.22061	.74479	.76049	.77573	.92286	.93957	.95381
12.000	2.0000	1656.36481	311.11320	1071.26796	.75204	.76861	.78578	.92054	.93711	.95429
14.000	2.0000	1655.64990	310.98056	1070.81123	.76565	.77847	.79173	.92530	.93912	.95238
16.000	2.0000	1656.12805	311.06919	1071.11641	.76889	.78134	.79369	.92538	.93783	.94919
18.000	2.0000	1656.33903	311.11927	1071.28868	.76887	.77975	.79289	.92099	.93387	.94700
20.000	2.0000	1655.98810	311.04332	1071.02734	.76696	.78472	.79747	.91337	.93112	.94387
22.000	2.0000	1655.65131	310.98100	1070.81276	.76922	.79115	.80303	.91054	.93247	.94435
24.000	2.0000	1655.32560	310.96040	1070.81279	.00327	.00253	.00366	.00076	.00101	.00075
GRADIENT	.00000	-.32560	-.06040	-.20799						

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SDEF = 2693.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.700

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	2.00000	1845.98238	235.71697	1093.83054	.71441	.76270	.79831	.90823	.95553	.98213
	2.000	2.00000	1845.69019	235.68356	1093.67549	.72270	.76859	.80338	.91321	.95909	.98388
	4.000	2.00000	1844.79526	235.56110	1093.10722	.72958	.77674	.81083	.91424	.96140	.98660
	6.000	2.00000	1844.06850	235.46566	1092.66437	.74180	.78378	.81699	.92192	.96390	.98711
	8.000	2.00000	1845.05512	235.59471	1093.26320	.74627	.78633	.81869	.92387	.96393	.98630
	10.000	2.00000	1845.94782	235.71702	1093.83081	.75476	.79473	.82345	.92379	.96376	.98548
	12.000	2.00000	1845.39353	235.63626	1093.45602	.76751	.79979	.82740	.93592	.96819	.98791
	14.000	2.00000	1846.03315	235.72144	1093.85130	.76756	.80587	.83315	.93182	.97013	.98741
	16.000	2.00000	1846.19992	235.73932	1093.93427	.78055	.81176	.83581	.94035	.97157	.98562
	18.000	2.00000	1846.65709	235.79776	1094.20544	.79240	.81958	.84313	.94508	.97326	.98691
	20.000	2.00000	1847.25053	235.88823	1094.52527	.79476	.82114	.84930	.94040	.96708	.97993
	22.000	2.00000	1847.20595	235.89139	1094.59354	.79099	.82335	.84855	.92853	.96138	.96509
	24.000	2.00000	1846.34912	235.77158	1094.08394	.79480	.82933	.85324	.92712	.96195	.95556
GRADIENT		.00000	-.29651	-.03997	-.18083	.00379	.00351	.00313	.00150	.00122	.00094

MACH = 2.250	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	2.00000	2059.21463	178.10006	1068.92479	.69518	.77179	.82214	.89820	.97481	1.02516
	2.000	2.00000	2059.0592	178.08647	1068.84325	.70248	.78020	.82920	.90138	.97909	1.02899
	4.000	2.00000	2059.00257	178.11435	1069.01056	.71238	.78425	.83661	.90567	.97855	1.03090
	6.000	2.00000	2059.19321	178.09820	1068.91364	.72756	.79640	.84618	.91678	.98563	1.03540
	8.000	2.00000	2059.07995	178.09938	1068.85463	.73920	.80455	.85144	.92358	.98833	1.03522
	10.000	2.00000	2059.48034	178.12256	1069.05893	.74905	.81259	.85344	.92965	.99319	1.03403
	12.000	2.00000	2058.63692	178.04952	1068.62145	.76197	.82190	.86276	.93748	.99740	1.03626
	14.000	2.00000	2059.07443	178.08793	1068.85205	.77050	.82307	.86254	.94268	.99525	1.03473
	16.000	2.00000	2058.61589	178.04855	1068.61565	.78281	.83199	.86803	.94791	.99709	1.03313
	18.000	2.00000	2058.53250	178.04136	1068.57249	.78697	.83535	.87092	.94603	.99441	1.02999
	20.000	2.00000	2058.52417	178.04055	1068.56763	.79223	.83400	.87273	.94720	.99907	1.02759
	22.000	2.00000	2058.59705	178.04656	1068.60429	.78293	.82915	.86800	.93063	.97725	1.02571
	24.000	2.00000	2058.37756	178.02781	1068.49115	.80504	.85516	.89076	.94842	.99934	1.02414
GRADIENT		.00000	-.04193	-.00357	-.02144	.00430	.00320	.00362	.00212	.00094	.00144

(FE7906) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	0A2/OC	052/OC	062/OC	0A4/OC	054/OC	064/OC
2.500	.000	2.00000	1487.32057	86.97802	654.60834	.70813	.81732	.86816	.89560	1.00478	1.07353
	2.000	2.00000	1487.99101	87.01836	654.91200	.71421	.81957	.86963	.90135	1.00681	1.07297
	4.000	2.00000	1487.96725	87.01707	654.90228	.72245	.82654	.86576	.90432	1.00841	1.07662
	6.000	2.00000	1487.96211	87.01669	654.89943	.73690	.83792	.90516	.91409	1.01511	1.08236
	8.000	2.00000	1487.95708	87.01653	654.89824	.75605	.85065	.91123	.92843	1.02303	1.08362
	10.000	2.00000	1487.91705	87.01443	654.88243	.77141	.86182	.91828	.94140	1.03181	1.08828
	12.000	2.00000	1487.93314	87.01538	654.88958	.78544	.86987	.92136	.94562	1.03346	1.08555
	14.000	2.00000	1487.92639	87.01483	654.88538	.79639	.87172	.92302	.95767	1.03240	1.08430
	16.000	2.00000	1487.94725	87.01604	654.89454	.80566	.87261	.92405	.96416	1.03131	1.08255
	18.000	2.00000	1487.92914	87.01502	654.88682	.80825	.87274	.92517	.96202	1.02651	1.07894
	20.000	2.00000	1487.96275	87.01727	654.90379	.81501	.87564	.92669	.96221	1.02284	1.07369
	22.000	2.00000	1487.95438	87.01694	654.90131	.82226	.88185	.93118	.95081	1.02041	1.06573
	24.000	2.00000	1487.98357	87.01867	654.91432	.82416	.88467	.93436	.95330	1.01582	1.06551
GRADIENT		.00000	.16166	.00976	.07349	.00358	.00230	.00265	.00218	.00090	.00125

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	0A2/OC	052/OC	062/OC	0A4/OC	054/OC	064/OC
3.000	.000	2.00000	1939.15904	51.12361	565.47639	.72783	.89731	1.00122	.90671	1.07619	1.18010
	2.000	2.00000	1940.13321	51.14938	565.76151	.73417	.90101	1.01013	.91217	1.07980	1.18812
	4.000	2.00000	1939.45256	51.13434	565.59507	.74206	.90716	1.01431	.91703	1.08213	1.18928
	6.000	2.00000	1939.50688	51.13526	565.60524	.76234	.92199	1.02287	.93406	1.09371	1.19460
	8.000	2.00000	1939.64354	51.14013	565.65913	.79856	.94447	1.03791	.95873	1.10664	1.20007
	10.000	2.00000	1937.17825	51.07750	564.96639	.80405	.94562	1.03463	.96930	1.11067	1.19888
	12.000	2.00000	1938.09195	51.10284	565.24663	.82579	.95651	1.04201	.98942	1.11914	1.20464
	14.000	2.00000	1937.60146	51.08700	565.07146	.84644	.96536	1.04907	1.00440	1.12331	1.20702
	16.000	2.00000	1939.26842	51.13221	565.57153	.85529	.96328	1.04743	1.00891	1.11690	1.20105
	18.000	2.00000	1938.53779	51.11276	565.35637	.86500	.96555	1.04784	1.01342	1.11397	1.19626
	20.000	2.00000	1938.72614	51.12192	565.45771	.86844	.96494	1.04632	1.01028	1.10738	1.18876
	22.000	2.00000	1938.94917	51.12888	565.53468	.86444	.95817	1.03911	1.00131	1.09505	1.17598
	24.000	2.00000	1938.90468	51.12836	565.52891	.85917	.96259	1.03389	.98976	1.08318	1.16448
GRADIENT		.00000	.07340	.00268	.02967	.00356	.00216	.00327	.00258	.00148	.00229

(FE7808) (02 AUG 78)

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
SREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RAWL = 1.99 GRADIENT INTERVAL = -5.00/ 5 00

MACH	ALPHA	BETA	PT	P	OCOMP	04240C	05270C	06270C	04470C	05470C	06470C
3.500	.000	2.00000	2667.88812	34.95021	532.71109	.68562	.89705	1.03279	.85817	1.06959	1.20534
2.000	.000	2.00000	2667.98584	34.95149	532.73955	.69480	.90387	1.04244	.86766	1.07582	1.21529
4.000	.000	2.00000	2667.55579	34.94600	532.64699	.70947	.91428	1.04981	.87922	1.08403	1.21957
6.000	.000	2.00000	2668.66705	34.96039	532.86630	.72967	.93108	1.06161	.89744	1.09885	1.22938
8.000	.000	2.00000	2669.83286	34.95260	532.89932	.75070	.94650	1.05797	.91500	1.11080	1.23227
10.000	.000	2.00000	2667.49628	34.94465	532.62630	.78332	.96065	1.07646	.94421	1.12154	1.23734
12.000	.000	2.00000	2668.69775	34.97392	533.07244	.80599	.97037	1.08427	.96243	1.12681	1.24070
14.000	.000	2.00000	2668.85501	34.96312	532.90790	.82415	.97390	1.09010	.97708	1.12682	1.24302
16.000	.000	2.00000	2669.65961	34.97344	533.06512	.84214	.98072	1.09306	.99012	1.12670	1.24104
18.000	.000	2.00000	2668.67300	34.96078	532.87227	.85236	.98109	1.08905	.99432	1.12303	1.23093
20.000	.000	2.00000	2670.18805	34.98034	533.17038	.85100	.97510	1.08179	.98922	1.11332	1.22002
22.000	.000	2.00000	2668.19308	34.95369	532.76417	.84523	.96769	1.07742	.97731	1.09876	1.20949
24.000	.000	2.00000	2670.01163	34.97799	533.13458	.83236	.95309	1.06239	.96074	1.08147	1.19078
GRADIENT		.00000	-.08307	-.00105	-.01603	.00596	.00431	.00426	.00526	.00364	.00356

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7807) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVOM = .000
AILRON = .000 BDFLAP = -7.178

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	QCOMP	QW2/OC	QW3/OC	QW4/OC	QW5/OC	QW6/OC	QW7/OC
2.000	5.00000	2624.0000	2057.68289	566.31805	.84712	.84710	1.10511	1.09196	1.10431	1.10429
4.000	5.00000	2624.93231	2057.61972	566.31259	.86904	.86904	1.08180	1.07053	1.08180	1.08197
6.000	5.00000	2624.85635	2058.36877	566.48758	.81767	.81767	1.07053	1.07053	1.07195	1.07355
8.000	5.00000	2627.65573	2060.37476	567.28098	.83454	.83454	1.07270	1.07270	1.07296	1.07324
10.000	5.00000	2625.01135	2058.40189	566.60947	.83753	.83753	1.05860	1.05860	1.05878	1.05905
12.000	5.00000	2625.86368	2059.00568	566.85800	.84583	.84583	1.05911	1.05911	1.05869	1.05821
14.000	5.00000	2624.17407	2057.86670	566.30737	.86530	.86530	1.05555	1.05555	1.05662	1.05676
16.000	5.00000	2624.36069	2058.02087	566.33981	.89129	.89129	1.07777	1.07777	1.07201	1.07101
18.000	5.00000	2624.72836	2058.21182	566.51654	.91762	.91762	1.08433	1.08433	1.08522	1.08655
20.000	5.00000	2627.18732	2059.98523	567.20209	.95149	.95149	1.10403	1.10403	1.10534	1.10660
22.000	5.00000	2627.48154	2060.22818	567.25336	.99523	.99523	1.11937	1.11937	1.12271	1.12511
24.000	5.00000	2625.04254	2058.51157	566.53098	1.03207	1.03207	1.12505	1.12505	1.13590	1.13751
GRADIENT	5.00000	2625.90552	2059.18518	566.72034	1.07239	1.07239	1.07450	1.07450	1.13590	1.13751
					-.00756	-.00756	-.00660	-.00660	-.00809	-.00756

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	QCOMP	QW2/OC	QW3/OC	QW4/OC	QW5/OC	QW6/OC	QW7/OC
2.000	5.00000	2111.48715	1248.50783	862.97934	.69526	.69483	.95927	.95927	.98883	.98815
4.000	5.00000	2115.43283	1250.78174	864.65109	.69501	.69498	.97721	.97721	.97721	.97715
6.000	5.00000	2117.10138	1251.73029	865.37109	.69386	.69473	.95780	.95780	.95867	.95794
8.000	5.00000	2114.79214	1250.37328	864.41888	.69331	.69331	.94376	.94376	.94319	.94321
10.000	5.00000	2109.96957	1247.40634	862.56323	.69703	.69671	.93024	.93024	.92998	.93083
12.000	5.00000	2116.56833	1251.47731	865.09103	.71386	.71386	.92439	.92439	.92430	.92507
14.000	5.00000	2116.71036	1251.55195	865.14941	.72688	.72688	.91754	.91754	.91754	.91763
16.000	5.00000	2112.28323	1249.90517	863.37808	.74285	.74285	.91644	.91644	.91654	.91665
18.000	5.00000	2114.90735	1250.43449	864.47287	.76311	.76311	.91844	.91844	.91950	.91980
20.000	5.00000	2115.76746	1250.94667	864.82060	.78206	.78206	.91956	.91956	.92102	.92140
22.000	5.00000	2108.11169	1246.37889	861.73282	.81026	.81026	.92721	.92721	.92908	.92944
24.000	5.00000	2109.97089	1247.37915	862.59174	.84377	.84377	.94148	.94148	.94389	.94466
GRADIENT	5.00000	2116.70166	1251.42284	865.27884	.87202	.87202	.94581	.94581	.95109	.95259
					-.00035	-.00035	-.00787	-.00787	-.00754	-.00755

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER - RAKES

(FEB707) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 EDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 933.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
1.200	.000	5.00000	2011.53369	829.44221	1167.44115	.61583	.61657	.61707	.83276	.83351	.83400
2.000	.000	5.00000	2009.60754	828.83453	1166.58583	.61436	.61486	.61583	.83383	.83435	.83480
4.000	.000	5.00000	2010.79175	829.08212	1166.93431	.62034	.62151	.62205	.82974	.83091	.83145
6.000	.000	5.00000	2013.55270	830.00262	1168.22992	.62802	.62935	.62946	.82074	.82205	.82218
8.000	.000	5.00000	2013.06412	829.84943	1168.01431	.63413	.63539	.63565	.82409	.82505	.82553
10.000	.000	5.00000	2013.08351	829.88534	1168.06627	.64562	.64644	.64735	.84634	.84807	.84877
12.000	.000	5.00000	2013.92958	830.14628	1168.43494	.65256	.65319	.65423	.85561	.85624	.85728
14.000	.000	5.00000	2014.49097	830.35471	1168.72548	.66119	.66199	.66259	.86385	.86428	.86524
16.000	.000	5.00000	2014.72244	830.37983	1168.76085	.67748	.67843	.67924	.86385	.86482	.86562
18.000	.000	5.00000	2016.26015	830.79547	1169.34586	.69615	.69739	.69870	.87457	.87631	.87712
20.000	.000	5.00000	2018.08566	831.44070	1170.25401	.71376	.71616	.71672	.88083	.88323	.88378
22.000	.000	5.00000	2016.50551	830.88952	1163.47824	.72755	.73052	.73086	.88182	.88478	.88512
24.000	.000	5.00000	2018.10297	831.41154	1170.21298	.74452	.74811	.74857	.88425	.88764	.88830
GRADIENT		.00000	-1.18549	-.09002	-.12671	.00113	.00123	.00124	-.00076	-.00055	-.00054

MACH	ALPHA	BETA	PT	P	OCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
1.400	.000	5.00000	2051.64871	644.49467	1320.72128	.64807	.65387	.65056	.88952	.89532	.90201
2.000	.000	5.00000	2052.59506	644.77777	1321.53142	.64769	.65132	.65095	.88442	.88905	.89469
4.000	.000	5.00000	2045.37286	642.84837	1317.34763	.65465	.65835	.65424	.88060	.88431	.88920
6.000	.000	5.00000	2043.72665	642.43147	1316.49332	.65943	.66209	.66787	.87752	.88018	.88595
8.000	.000	5.00000	2038.74538	641.18506	1313.94118	.66495	.66804	.67349	.87528	.87836	.88381
10.000	.000	5.00000	2037.38092	640.82363	1313.19847	.67374	.67695	.68135	.87527	.87848	.88292
12.000	.000	5.00000	2038.57906	641.10538	1313.77768	.68113	.68440	.68904	.87601	.87928	.88393
14.000	.000	5.00000	2044.59929	642.08685	1315.78711	.69505	.69786	.70248	.88098	.88369	.88831
16.000	.000	5.00000	2042.24944	642.08685	1315.78711	.70841	.71045	.71510	.88223	.88427	.88902
18.000	.000	5.00000	2029.50903	638.78069	1309.01199	.71054	.71279	.71779	.87642	.87828	.88357
20.000	.000	5.00000	2032.02077	639.50005	1310.48613	.71506	.71855	.72348	.87577	.87826	.88319
22.000	.000	5.00000	2035.48625	640.41441	1312.35988	.72385	.72910	.73435	.87706	.88231	.88756
24.000	.000	5.00000	2020.62016	635.51413	1304.36728	.73579	.73167	.73657	.87001	.87583	.88183
GRADIENT		.00000	-1.56897	-.41158	-.84341	.00164	.00112	.00092	-.00223	-.00275	-.00295

(FE7807) (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q42/OC	Q52/OC	Q62/OC	Q44/OC	Q54/OC	Q64/OC
2.000	.000	5.00000	1874.93884	234.25348	1087.03931	.70159	.74708	.77714	.91895	.96443	.99449
2.000	2.000	5.00000	1830.93913	233.73630	1084.73218	.70461	.74995	.78079	.92067	.96500	.99685
4.000	4.000	5.00000	1831.46327	233.83033	1085.07568	.71104	.75222	.78383	.92183	.96301	.99462
6.000	6.000	5.00000	1831.73577	233.86808	1085.25089	.72148	.76257	.79274	.92519	.96628	.99544
8.000	8.000	5.00000	1834.07381	234.17432	1085.67477	.73606	.77598	.80405	.93294	.97287	1.00094
10.000	10.000	5.00000	1836.11595	234.42052	1087.81444	.74930	.78347	.81250	.94017	.97434	1.00337
12.000	12.000	5.00000	1836.10439	234.41893	1087.80734	.75307	.79087	.81720	.93991	.97771	1.00404
14.000	14.000	5.00000	1841.38962	235.10691	1090.99950	.76668	.79567	.82294	.94615	.97514	1.00241
16.000	16.000	5.00000	1843.86311	235.19734	1096.09969	.77326	.80177	.82904	.94617	.97469	1.00195
18.000	18.000	5.00000	1849.98158	236.21837	1096.15729	.77262	.80056	.82328	.93962	.96756	.99028
20.000	20.000	5.00000	1845.65545	235.66004	1093.56639	.78146	.80632	.82968	.94093	.96580	.98936
22.000	22.000	5.00000	1847.52986	235.89360	1094.65019	.79639	.81824	.84479	.94702	.96888	.99343
24.000	24.000	5.00000	1848.52892	236.04575	1095.35625	.80045	.82285	.84931	.94050	.96290	.98935
GRADIENT		.00000	-.86914	-.10579	-.49091	.00236	.00129	.00167	.00072	-.00035	.00003

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	Q42/OC	Q52/OC	Q62/OC	Q44/OC	Q54/OC	Q64/OC
2.250	.000	5.00000	2059.36877	178.11419	1069.00958	.72740	.80059	.84677	.94095	.98424	1.06032
4.000	4.000	5.00000	2058.48529	178.03863	1068.55612	.73215	.80439	.84940	.94154	1.01378	1.05880
6.000	6.000	5.00000	2059.33249	178.11115	1068.99139	.73294	.80344	.85082	.94088	1.01137	1.05876
8.000	8.000	5.00000	2059.45581	178.12163	1069.05426	.74702	.81460	.85744	.95336	1.02093	1.06377
10.000	10.000	5.00000	2058.44626	178.03483	1068.53333	.75572	.83880	.87308	.96410	1.02954	1.07146
12.000	12.000	5.00000	2059.21469	178.10055	1068.92778	.78064	.83880	.87860	.96842	1.02558	1.06638
14.000	14.000	5.00000	2058.72952	178.05987	1068.67738	.78501	.83919	.88021	.96917	1.02235	1.06337
16.000	16.000	5.00000	2058.33539	178.02506	1068.47436	.79818	.85197	.89279	.97617	1.02936	1.07079
18.000	18.000	5.00000	2059.73508	178.14466	1069.19247	.79942	.85235	.89237	.97275	1.02567	1.06570
20.000	20.000	5.00000	2058.78250	178.06276	1068.70033	.80729	.85575	.89309	.97359	1.02206	1.05940
22.000	22.000	5.00000	2059.63272	178.13587	1069.13972	.81619	.86042	.89642	.97503	1.01932	1.05525
24.000	24.000	5.00000	2058.95166	178.07758	1068.78992	.82115	.86112	.89028	.97644	1.01941	1.05558
GRADIENT		.00000	2058.71259	178.05685	1068.65547	.80731	.85351	.88881	.95115	.99735	1.03266
			-.00907	-.00076	-.00455	.00139	.00069	.00101	-.00002	-.00072	-.00039

(FE7807) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 CRBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	QCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	5.00000	1487.41838	86.98371	654.65117	.73850	.84625	.90552	.94398	1.05173	1.11100
	2.000	5.00000	1487.53204	86.99042	654.70170	.74636	.85262	.91468	.95114	1.05739	1.11945
	4.000	5.00000	1487.59726	86.99357	654.72614	.75317	.85732	.92188	.95348	1.05923	1.12249
	6.000	5.00000	1487.58563	86.99354	654.72516	.76078	.86545	.92609	.95656	1.06133	1.12197
	8.000	5.00000	1487.60551	86.99329	654.73932	.76186	.86666	.92699	.95734	1.06874	1.12654
	10.000	5.00000	1487.63735	86.99750	654.75346	.76844	.87434	.93395	.96443	1.07234	1.12920
	12.000	5.00000	1487.63515	86.99718	654.75260	.76839	.87434	.93395	.96443	1.07234	1.12920
	14.000	5.00000	1487.64052	86.99771	654.75657	.82034	.89737	.95168	.99954	1.07359	1.13099
	16.000	5.00000	1487.63156	86.99771	654.75657	.82034	.89737	.95168	.99954	1.07359	1.13099
	18.000	5.00000	1487.64584	86.99899	654.76519	.82910	.90203	.95507	1.00231	1.07524	1.12828
	20.000	5.00000	1487.63817	86.99842	654.74684	.84362	.90958	.96146	1.00610	1.07361	1.12519
	22.000	5.00000	1487.61295	86.99581	654.74979	.84619	.91076	.96265	1.00135	1.06732	1.11919
	24.000	5.00000	1487.57564	86.99521	654.73773	.84982	.91166	.96150	.99236	1.06110	1.11299
GRADIENT		.00000	.04233	.00249	.01874	.00367	.00292	.00417	.00237	1.05380	1.10403

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	QCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	5.00000	1939.46461	51.12282	565.46770	.78558	.95880	1.05367	.98098	1.15420	1.24907
	2.000	5.00000	1937.72949	51.07815	564.97363	.79014	.96827	1.06396	.98424	1.16237	1.25805
	4.000	5.00000	1937.05000	51.08625	565.06321	.80328	.97404	1.07326	.99497	1.16573	1.26495
	6.000	5.00000	1934.52211	51.09901	565.20436	.81377	.98227	1.07861	1.00245	1.17095	1.26729
	8.000	5.00000	1938.14912	51.09524	565.16261	.84074	.99851	1.09067	1.02558	1.18333	1.27551
	10.000	5.00000	1938.11229	51.09643	565.17573	.86199	1.00517	1.09914	1.04274	1.18592	1.27989
	12.000	5.00000	1937.93176	51.09222	565.12921	.88053	1.01251	1.10491	1.05736	1.18934	1.28173
	14.000	5.00000	1938.21223	51.10291	565.24744	.89774	1.02289	1.11264	1.06916	1.19431	1.29406
	16.000	5.00000	1938.80111	51.12403	565.48102	.90647	1.02546	1.11348	1.07356	1.19255	1.29057
	18.000	5.00000	1938.64461	51.12433	565.48442	.91525	1.02890	1.11710	1.07598	1.18952	1.27772
	20.000	5.00000	1938.51358	51.11730	565.40661	.92098	1.03088	1.11964	1.07389	1.18379	1.27255
	22.000	5.00000	1938.80377	51.12642	565.50747	.91864	1.02678	1.11629	1.06501	1.17315	1.25266
	24.000	5.00000	1938.03142	51.11131	565.34034	.91673	1.02426	1.11108	1.05605	1.16358	1.25040
GRADIENT		.00000	-.75345	-.00914	-.10112	.00443	.00381	.00490	.00350	.00288	.00397

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500	ALPHA	BETA	PT	P	QCOMP	042/OC	052/OC	062/OC	044/OC	054/OC	064/OC
	.000	5.00000	2683.02945	35.14780	535.72283	.77515	.98553	1.12271	.95601	1.18640	1.31357
	2.000	5.00000	2682.78683	35.14482	535.67736	.77806	1.00352	1.13728	.96712	1.19257	1.32634
	4.000	5.00000	2680.96332	35.12155	535.32263	.79282	1.01550	1.14666	.97887	1.20156	1.33271
	6.000	5.00000	2682.66058	35.14306	535.65053	.81131	1.02662	1.15447	.98498	1.21029	1.33813
	8.000	5.00000	2680.65055	35.11761	535.26253	.83446	1.03890	1.16328	1.01541	1.21984	1.34628
	10.000	5.00000	2682.31409	35.13948	535.58063	.86864	1.05217	1.17557	1.04501	1.22864	1.35194
	12.000	5.00000	2680.79222	35.11946	535.29087	.88952	1.06012	1.18710	1.06144	1.23203	1.35902
	14.000	5.00000	2691.94269	35.13391	535.51109	.90602	1.06906	1.19295	1.07373	1.23714	1.36104
	16.000	5.00000	2660.82974	35.11878	535.28040	.91985	1.07670	1.20060	1.08029	1.23714	1.36104
	18.000	5.00000	2680.17957	35.11156	535.17036	.92480	1.07368	1.19367	1.07957	1.23714	1.36104
	20.000	5.00000	2692.18320	35.13710	535.55972	.92915	1.07464	1.19715	1.07935	1.23714	1.36104
	22.000	5.00000	2682.60205	35.11565	535.23274	.92369	1.05785	1.18884	1.05775	1.21191	1.33290
	24.000	5.00000	2680.41901	35.11479	535.21957	.91460	1.05617	1.17150	1.05167	1.19334	1.30857
GRADIENT		.00000	-5.1654	-.00656	-.10005	.00442	.00498	.00598	.00321	.00379	.00478

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(FE7C03) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
1.200	.000	-5.00000	2008.91339	828.82202	1166.56822	-.01841	-.01971	-.01951	-.01583	-.01625	-.01678
2.000	.000	-5.00000	2009.58676	828.57557	1166.22134	-.01582	-.01637	-.01586	-.01385	-.01433	-.01388
4.000	.000	-5.00000	2012.39209	829.41618	1167.40450	-.01510	-.01467	-.01464	-.01380	-.01340	-.01414
6.000	.000	-5.00000	2007.39058	828.01813	1165.43674	-.01597	-.01638	-.01700	-.01351	-.01313	-.01310
8.000	.000	-5.00000	2005.18105	827.76498	1165.08044	-.01692	-.01698	-.01700	-.01420	-.01510	-.01512
10.000	.000	-5.00000	1933.63934	826.39300	1163.13523	-.01677	-.02133	-.02085	-.01455	-.01720	-.01806
12.000	.000	-5.00000	2001.46516	826.74883	1163.65021	-.01927	-.02478	-.02341	-.01449	-.01815	-.01324
14.000	.000	-5.00000	2001.00822	826.64798	1163.50826	-.02229	-.02854	-.02568	-.01684	-.02165	-.02045
16.000	.000	-5.00000	1959.43224	826.30900	1163.03114	-.02213	-.02834	-.02672	-.01950	-.02509	-.02366
18.000	.000	-5.00000	2023.10529	827.20448	1164.29153	-.02213	-.02938	-.02855	-.02141	-.02685	-.02558
20.000	.000	-5.00000	2000.66002	826.62395	1163.47430	-.03083	-.03515	-.03269	-.02785	-.03174	-.02952
22.000	.000	-5.00000	1936.12425	825.65847	1162.11552	-.03768	-.03934	-.03649	-.03435	-.03614	-.03327
24.000	.000	-5.00000	1995.54181	825.41649	1161.77493	-.00070	-.00116	-.00090	-.00049	-.00089	-.00055
GRADIENT			.86967	.14854	.20908						

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
1.550	.000	-5.00000	1578.31139	400.01855	1042.32884	-.22676	-.21083	-.19490	-.18498	-.17241	-.15977
2.000	.000	-5.00000	1578.99117	400.18729	1042.76894	-.22413	-.20876	-.19270	-.18462	-.17238	-.15945
4.000	.000	-5.00000	1577.32025	399.78399	1041.71767	-.21714	-.20256	-.18730	-.18008	-.16833	-.15598
6.000	.000	-5.00000	1577.34309	399.79176	1041.73790	-.21572	-.20088	-.18411	-.18028	-.16822	-.15453
8.000	.000	-5.00000	1578.35884	400.03287	1042.36615	-.22576	-.20411	-.18580	-.18987	-.17214	-.15707
10.000	.000	-5.00000	1575.77289	399.39394	1040.70128	-.22765	-.19999	-.18060	-.19287	-.17001	-.15390
12.000	.000	-5.00000	1575.64384	399.36981	1040.63841	-.20467	-.19150	-.17743	-.17534	-.16432	-.15422
14.000	.000	-5.00000	1575.95380	399.44587	1040.83922	-.20817	-.19207	-.18214	-.18023	-.16659	-.15683
16.000	.000	-5.00000	1575.97449	399.45256	1040.85405	-.22138	-.19950	-.18214	-.19223	-.17365	-.16228
18.000	.000	-5.00000	1576.27609	399.52647	1041.04663	-.22474	-.20152	-.18533	-.19598	-.17616	-.16500
20.000	.000	-5.00000	1576.91870	399.41241	1040.74942	-.23226	-.20702	-.18973	-.20284	-.18155	-.17519
22.000	.000	-5.00000	1575.80944	399.41526	1040.75685	-.24662	-.21897	-.20032	-.21464	-.19113	-.18786
24.000	.000	-5.00000	1576.42549	399.57412	1041.17079	-.26066	-.23260	-.21453	-.22717	-.20330	-.18786
GRADIENT			-.24773	-.05863	-.15279						

(FE7C03) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
ALPHA	-5.00000	1643.42418	309.79275	1066.72121	-46280	-41780	-37209	-37413	-33976	-30442
.000	-5.00000	1650.93587	310.08348	1067.72229	-44834	-40485	-36499	-36583	-33218	-30101
2.000	-5.00000	1650.24094	309.94633	1057.25003	-43889	-39676	-35703	-36025	-32738	-29607
4.000	-5.00000	1649.91432	309.89394	1067.06963	-42646	-38956	-35113	-35206	-32306	-29257
6.000	-5.00000	1650.82304	310.06269	1067.65071	-43959	-39558	-34694	-36472	-32197	-29104
8.000	-5.00000	1650.44762	309.98747	1067.39171	-43381	-37677	-34206	-36208	-31656	-28656
10.000	-5.00000	1651.41377	310.17471	1068.03642	-40828	-36901	-33867	-34338	-31173	-28709
12.000	-5.00000	1651.02856	310.09578	1067.76807	-41907	-37164	-33995	-34214	-31415	-28746
14.000	-5.00000	1650.14075	309.92979	1067.19304	-43457	-38494	-35225	-35521	-31662	-29062
16.000	-5.00000	1650.64254	310.06318	1067.65240	-44806	-39633	-36289	-36878	-32839	-30155
18.000	-5.00000	1651.58724	310.16493	1068.00276	-45364	-40435	-37045	-38032	-33824	-31078
20.000	-5.00000	1651.57825	310.20011	1068.12389	-46445	-41933	-38469	-38818	-34771	-31964
22.000	-5.00000	1651.58163	310.20077	1068.12617	-46445	-41933	-38469	-38818	-34771	-31964
24.000	-5.00000	1651.58163	310.20077	1068.12617	-46445	-41933	-38469	-38818	-34771	-31964
GRADIENT	.00000	.23419	.03840	.13221	.00598	.00526	.00376	.00347	.00309	.00209

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
ALPHA	-5.00000	1847.06216	235.97826	1095.04305	-82616	-71762	-63374	-67323	-59128	-52570
.000	-5.00000	1848.00623	236.10478	1095.63014	-80149	-70148	-62183	-65820	-58184	-51993
2.000	-5.00000	1847.42177	236.02850	1095.27518	-78373	-68204	-60722	-64852	-56998	-51119
4.000	-5.00000	1846.95721	235.98262	1094.97344	-76195	-66845	-59232	-63413	-56131	-50662
6.000	-5.00000	1846.99805	235.96757	1094.99344	-75377	-65583	-58648	-63172	-55465	-49922
8.000	-5.00000	1846.48346	235.89915	1094.67596	-74912	-64264	-58479	-63118	-54670	-50012
10.000	-5.00000	1846.51515	235.90250	1094.69148	-72444	-63963	-57972	-61242	-54497	-49552
12.000	-5.00000	1846.62762	235.91658	1094.74682	-71453	-64027	-58191	-60532	-54602	-49887
14.000	-5.00000	1846.02321	235.83774	1094.34356	-72546	-64096	-58900	-61858	-55051	-50815
16.000	-5.00000	1846.85618	235.87904	1094.58261	-74633	-65431	-60011	-63810	-56372	-51939
18.000	-5.00000	1846.85618	235.94551	1094.89108	-75445	-66637	-60891	-64745	-57595	-52877
20.000	-5.00000	1847.20576	235.93882	1095.03203	-76922	-68114	-62344	-66484	-59272	-54498
22.000	-5.00000	1847.20576	235.93882	1095.03203	-76922	-68114	-62344	-66484	-59272	-54498
24.000	-5.00000	1846.00113	235.83439	1094.37541	-76466	-68405	-62744	-66572	-59908	-55180
GRADIENT	.00000	.08930	.01256	.05629	.01061	.00690	.00663	.00618	.00533	.00389

(FE7C03) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	ALPHA	BETA	PT	P	QCOMP	DPTQ42	DPT052	DPT062	DPT044	DPT054	DPT064
	.000	-5.00000	2051.52133	177.43511	1064.93391	-1.31498	-1.10440	-9.6519	-1.08400	-9.2519	-8.1734
	2.000	-5.00000	2050.73444	177.36765	1064.52908	-1.29240	-1.08642	-9.9418	-1.07139	-9.1470	-8.0754
	4.000	-5.00000	2050.30634	177.38244	1064.61781	-1.26136	-1.07027	-9.3946	-1.05169	-9.0508	-8.0229
	6.000	-5.00000	2050.73029	177.36738	1064.52737	-1.22574	-1.05578	-9.3190	-1.02783	-8.9536	-7.9846
	8.000	-5.00000	2051.17938	177.40587	1064.75842	-1.19773	-1.03667	-9.2283	-1.00977	-8.8415	-7.9359
	10.000	-5.00000	2051.78479	177.45775	1065.06981	-1.17089	-1.01639	-9.0535	-9.8995	-8.6889	-7.8019
	12.000	-5.00000	2052.43539	177.51383	1065.40637	-1.14235	-9.9892	-8.9831	-9.7503	-8.5855	-7.7759
	14.000	-5.00000	2054.13220	177.65454	1066.25092	-1.12960	-9.9505	-8.9012	-9.7785	-8.5928	-7.8406
	16.000	-5.00000	2055.24664	177.75452	1066.85094	-1.13971	-9.9568	-8.9927	-1.00231	-8.7849	-8.0029
	18.000	-5.00000	2055.90338	177.81194	1067.19557	-1.15785	-1.01323	-9.3147	-1.00428	-8.9370	-8.1555
	20.000	-5.00000	2055.49188	177.77633	1066.98186	-1.16404	-1.02637	-9.4848	-1.03367	-9.1464	-8.3628
	22.000	-5.00000	2055.36855	177.76571	1066.91809	-1.19009	-1.04335	-9.5203	-1.03611	-9.1957	-8.4043
	24.000	-5.00000	2055.56168	177.66968	1067.54214	-1.19050	-1.04735	-9.5203	-1.03611	-9.1957	-8.4043
	GRADIENT	.00000	-.15373	-.01317	-.07902	.01340	.00853	.00643	.00808	.00503	.00376

MACH = 2.500	ALPHA	BETA	PT	P	QCOMP	DPTQ42	DPT052	DPT062	DPT044	DPT054	DPT064
	.000	-5.00000	1498.56390	87.64465	659.62552	-2.08263	-1.73240	-1.50525	-1.72453	-1.46310	-1.28790
	2.000	-5.00000	1497.87276	87.60339	659.31491	-2.04587	-1.70073	-1.46740	-1.70025	-1.44101	-1.25993
	4.000	-5.00000	1497.09436	87.55775	658.97150	-1.98631	-1.65677	-1.43909	-1.65998	-1.41014	-1.23999
	6.000	-5.00000	1497.75047	87.59612	659.26024	-1.92426	-1.61859	-1.41290	-1.61877	-1.38461	-1.22253
	8.000	-5.00000	1497.84230	87.60144	659.30032	-1.85887	-1.57776	-1.39659	-1.57250	-1.35523	-1.21152
	10.000	-5.00000	1497.61511	87.59991	659.28880	-1.80450	-1.54789	-1.37773	-1.53535	-1.33524	-1.19946
	12.000	-5.00000	1497.81754	87.59988	659.28856	-1.78326	-1.53507	-1.37259	-1.51987	-1.32590	-1.19592
	14.000	-5.00000	1497.78593	87.59754	659.27169	-1.76342	-1.52221	-1.37210	-1.50682	-1.31744	-1.19711
	16.000	-5.00000	1497.77357	87.59656	659.26300	-1.75505	-1.52569	-1.37674	-1.50443	-1.32674	-1.20374
	18.000	-5.00000	1497.77548	87.59658	659.26370	-1.76184	-1.53635	-1.38443	-1.51658	-1.33756	-1.21459
	20.000	-5.00000	1497.79367	87.59782	659.27309	-1.78247	-1.55601	-1.40913	-1.53928	-1.35793	-1.23326
	22.000	-5.00000	1497.81293	87.59903	659.28218	-1.81448	-1.58665	-1.43511	-1.57193	-1.38729	-1.26658
	24.000	-5.00000	1497.82393	87.59926	659.28389	-1.86857	-1.64149	-1.48142	-1.61949	-1.43765	-1.30777
	GRADIENT	.00000	-.36739	-.02172	-.16350	.02408	.01691	.01654	.01614	.01324	.01139

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SPEED = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LIFT = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6600 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500
ALPHA = .000

BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
-5.0000	1935.56339	51.10074	565.22348	-4.59784	-3.63310	-3.05290	-3.74026	-3.05362	-2.61826
-5.0000	1935.15036	51.09178	565.12438	-4.51293	-3.57737	-2.99590	-3.68557	-3.01534	-2.57655
-5.0000	1936.07675	51.11307	565.35988	-4.35558	-3.46750	-2.93451	-3.58726	-2.94189	-2.53555
-5.0000	1936.50783	51.12482	565.48977	-4.19831	-3.37902	-2.87732	-3.47926	-2.87798	-2.49318
-5.0000	1936.47981	51.12357	565.47600	-4.01669	-3.28571	-2.84225	-3.35505	-2.81197	-2.46923
-5.0000	1936.30377	51.12127	565.45016	-3.87193	-3.19511	-2.79459	-3.26040	-2.75391	-2.43937
-5.0000	1936.00462	51.11145	565.34151	-3.78391	-3.14514	-2.77250	-3.20732	-2.72587	-2.42617
-5.0000	1935.75789	51.09733	565.18574	-3.74130	-3.11218	-2.76223	-3.17756	-2.71892	-2.42136
-5.0000	1935.54829	51.08156	565.01133	-3.67048	-3.10336	-2.75660	-3.14926	-2.70939	-2.41842
-5.0000	1935.29300	51.07934	564.96677	-3.67048	-3.10336	-2.75660	-3.14926	-2.70939	-2.41842
-5.0000	1934.35158	51.05967	564.76923	-3.71734	-3.15146	-2.79880	-3.19747	-2.75899	-2.47478
-5.0000	1934.81860	51.07553	564.34459	-3.77189	-3.21562	-2.85857	-3.25274	-2.81626	-2.53183
-5.0000	1934.05580	51.04761	564.63582	-3.85752	-3.31354	-2.94914	-3.32477	-2.90078	-2.60923
-5.0000	1934.12834	.00308	.03410	.06057	.04140	.02960	.03825	.02793	.02058

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500
ALPHA = .000

BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
-5.0000	2547.37308	33.36888	508.60840	-8.55895	-6.50008	-5.31905	-6.78289	-5.39226	-4.53420
-5.0000	2547.81790	33.37489	508.70000	-8.37744	-6.34809	-5.19891	-6.67400	-5.29007	-4.44837
-5.0000	2546.94195	33.36394	508.53317	-8.07942	-6.15564	-5.07510	-6.49322	-5.16185	-4.36210
-5.0000	2547.50006	33.37128	508.64510	-7.78162	-6.00316	-5.01615	-6.30963	-5.05149	-4.32492
-5.0000	2547.17233	33.36768	508.58098	-7.32329	-5.77824	-4.90888	-6.01253	-4.90716	-4.25105
-5.0000	2551.36157	33.42059	509.41276	-7.07577	-5.66530	-4.83652	-5.85198	-4.83897	-4.20698
-5.0000	2555.54724	33.47650	510.24735	-6.86100	-5.56595	-4.78592	-5.72071	-4.77154	-4.17350
-5.0000	2558.82321	33.51913	510.89731	-6.68599	-5.47038	-4.73192	-5.62314	-4.71942	-4.17350
-5.0000	2563.56443	33.58282	511.87032	-6.50600	-5.40938	-4.69573	-5.53358	-4.69405	-4.13567
-5.0000	2567.71115	33.63562	512.67409	-6.57436	-5.41489	-4.71531	-5.59762	-4.71770	-4.16670
-5.0000	2572.38071	33.69739	513.51562	-6.55372	-5.41489	-4.71531	-5.59762	-4.71770	-4.16670
-5.0000	2578.11011	33.77192	514.75152	-6.70330	-5.56715	-4.88309	-5.73461	-4.86305	-4.32245
-5.0000	2578.93777	33.78332	514.92529	-6.85312	-5.73558	-5.03086	-5.85266	-5.00185	-4.44581
-5.0000	2578.11079	.00123	.01600	.11388	.08111	.06099	.07242	.05760	.04303

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7C04) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

FN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
1.550	0.000	-2.00000	1574.43616	398.83030	1039.23260	-21609	-19802	-18004	-16925	-15560	-14193
2.000	0.000	-2.00000	1573.92516	398.70513	1038.90645	-20947	-19234	-17489	-16571	-15260	-13919
4.000	0.000	-2.00000	1573.05897	398.48754	1038.33949	-20010	-18278	-16508	-15752	-14638	-13572
6.000	0.000	-2.00000	1573.57761	398.62070	1038.68616	-19531	-17913	-16489	-15752	-14465	-13355
8.000	0.000	-2.00000	1574.51833	398.81203	1039.18510	-18876	-17785	-16409	-15309	-14450	-13361
10.000	0.000	-2.00000	1574.64332	398.88465	1039.37476	-20018	-17911	-16171	-15351	-14577	-13286
12.000	0.000	-2.00000	1574.59084	398.93705	1039.51079	-20024	-17966	-16149	-15554	-14855	-13426
14.000	0.000	-2.00000	1574.59084	398.87534	1039.34998	-18290	-17289	-15936	-15323	-14647	-13268
16.000	0.000	-2.00000	1575.31898	399.06065	1039.84596	-18881	-17553	-16346	-15943	-15368	-14181
18.000	0.000	-2.00000	1575.34929	399.06569	1039.84596	-20786	-18046	-16823	-16322	-15840	-14731
20.000	0.000	-2.00000	1574.16409	399.76549	1039.06374	-21875	-19328	-17534	-16893	-16550	-15112
22.000	0.000	-2.00000	1574.15891	398.76766	1039.06938	-22540	-20151	-18458	-17261	-16550	-15119
24.000	0.000	-2.00000	1574.84904	398.94400	1039.52890	-22540	-20151	-18458	-17261	-16550	-15119
26.000	0.000	-2.00000	1574.84904	398.94400	1039.52890	-22540	-20151	-18458	-17261	-16550	-15119
GRADIENT						.00400	.00381	.00274	.00237	.00231	.00155

FN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
1.750	0.000	-2.00000	1650.91153	310.07685	1067.69946	-41126	-36522	-32445	-32483	-29046	-25962
2.000	0.000	-2.00000	1652.84775	310.44413	1068.96416	-40052	-35544	-31700	-31921	-28514	-25574
4.000	0.000	-2.00000	1653.85585	310.63168	1069.60992	-39318	-35213	-31304	-31424	-28310	-25311
6.000	0.000	-2.00000	1654.35829	310.72112	1069.82824	-38370	-34579	-30937	-30817	-27923	-25113
8.000	0.000	-2.00000	1653.79941	310.62094	1069.57295	-37505	-33872	-30505	-30312	-27515	-24698
10.000	0.000	-2.00000	1654.31114	310.72391	1069.92749	-38225	-33310	-29757	-31077	-27262	-24472
12.000	0.000	-2.00000	1655.30927	310.90954	1070.56705	-38080	-32953	-29552	-31279	-27249	-24545
14.000	0.000	-2.00000	1655.65390	310.97398	1070.78859	-35264	-32400	-29622	-29170	-26900	-24561
16.000	0.000	-2.00000	1654.93356	310.83346	1070.32539	-35384	-32571	-29657	-29405	-27163	-24823
18.000	0.000	-2.00000	1655.58514	310.94767	1070.76588	-37275	-33073	-30303	-31095	-27732	-25495
20.000	0.000	-2.00000	1657.05319	311.24283	1071.71434	-38077	-33516	-30656	-32071	-28377	-26041
22.000	0.000	-2.00000	1657.69335	311.33872	1072.11337	-38268	-34036	-30980	-32576	-29105	-26581
24.000	0.000	-2.00000	1657.51353	311.33756	1072.00542	-38917	-34882	-31843	-33253	-29932	-27411
26.000	0.000	-2.00000	1657.51353	311.33756	1072.00542	-38917	-34882	-31843	-33253	-29932	-27411
GRADIENT						.00452	.00327	.00265	.00265	.00184	.00163

SECRET

SEEF	=	2590.0000	90.FT.	XMAP	=	1076.6800	IN. ZO
SEEF	=	477.8000	IN. YO	YMAP	=	0.0000	IN. YO
SEEF	=	936.6800	IN. Z0	ZMAP	=	375.0000	IN. ZO
SEEF	=	.0300					

$\frac{F_{\text{net}}}{F_{\text{net}}}$	$= 2.00$	GRADIENT INTERVAL =	-5.00/	5.00
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RNVI = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

TABULATED DATA - OA161 (ARC 11-97-87-094)
 (FETC04) (02 AUG 76)
 ARC 11-97-87-094 OA161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SPEC = 2693.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.9000 IN. YMRP = .0000 IN. YO
 SREF = 935.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
3.500	.000	-2.00000	2608.07135	34.16512	520.74471	-7.34062	-5.37651	-4.41317	-5.83028	-4.48772	-3.77759
2.000	.000	-2.00000	2609.47937	34.18432	521.03742	-7.18142	-5.29065	-4.33019	-5.73098	-4.42881	-3.71727
4.000	.000	-2.00000	2610.52899	34.19799	521.24570	-6.93232	-5.15832	-4.25982	-5.57992	-4.34142	-3.67001
6.000	.000	-2.00000	2614.11072	34.24500	521.95236	-6.67524	-5.05576	-4.22450	-5.45335	-4.27121	-3.64662
8.000	.000	-2.00000	2614.27722	34.24222	521.95636	-6.31908	-4.91634	-4.15020	-5.19132	-4.18197	-3.59931
10.000	.000	-2.00000	2619.19357	34.31230	522.98805	-6.03925	-4.79649	-4.08384	-5.04631	-4.12312	-3.55670
12.000	.000	-2.00000	2615.71823	34.26563	522.27669	-5.87352	-4.70225	-4.03558	-4.91227	-4.04551	-3.52359
14.000	.000	-2.00000	2617.89397	34.29432	522.71407	-5.69615	-4.61921	-4.00189	-4.79821	-3.93226	-3.51170
16.000	.000	-2.00000	2615.78174	34.26626	522.28640	-5.55567	-4.56154	-4.02383	-4.74441	-3.86578	-3.52631
18.000	.000	-2.00000	2617.10403	34.28431	522.56139	-5.52412	-4.56154	-4.02383	-4.72395	-3.85399	-3.52631
20.000	.000	-2.00000	2615.61575	34.26406	522.25275	-5.50674	-4.57372	-4.05239	-4.72972	-4.01420	-3.52631
22.000	.000	-2.00000	2619.49699	34.31592	523.04321	-5.58549	-4.67374	-4.13564	-4.83363	-4.09130	-3.52631
24.000	.000	-2.00000	2624.04565	34.37497	523.94328	-5.63990	-4.80477	-4.21801	-4.91534	-4.22150	-3.52631
GRADIENT		.00000	.61442	.00822	.12524	.10208	.05455	.03834	.06559	.03558	.02899

ORIGINAL PAGE IS
 OF POOR QUALITY

(IF7005) (02 AUG 75)

PARAMETRIC DATA

BETA = .002 ELEVON = .000
AULRON = .009 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 935.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	P	QCOMP	DPTQ42	DPTQ52	DPTQ62	DPTQ44	DPTQ54	DPTQ64
.600	.0000	.0000	2635.1334	2067.16983	568.95451	-.00103	.00121	-.00015	-.00064	.00054	.00013
2.000	.0000	.0000	2635.4282	2067.42532	569.02750	.00108	-.00004	-.00012	-.00089	-.00004	.00010
4.000	.0000	.0000	2638.3844	2068.84335	569.52808	.00305	.00108	-.00043	.00253	-.00089	-.00035
6.000	.0000	.0000	2635.8372	2067.04514	568.79059	.00210	.00127	-.00000	.00176	.00106	.00000
8.000	.0000	.0000	2638.20016	2067.24375	569.95142	-.00034	.00073	.00102	-.00029	.00051	.00005
10.000	.0000	.0000	2635.9349	2067.10458	568.83035	.00092	.00137	.00010	-.00079	.00119	.00008
12.000	.0000	.0000	2635.4513	2066.78932	568.67661	-.00078	.00067	-.00033	-.00068	.00059	.00003
14.000	.0000	.0000	2635.11768	2067.19876	568.91891	.00123	-.00075	.00024	-.00108	.00067	-.00008
16.000	.0000	.0000	2635.9533	2067.16256	568.22335	-.00045	.00039	-.00010	-.00041	.00051	.00001
18.000	.0000	.0000	2638.61063	2068.90408	569.61655	.00269	.00249	.00480	.00249	.00259	.00123
20.000	.0000	.0000	2637.1631	2066.12332	569.35559	.00811	.00899	-.00480	.00794	.00559	.00123
22.000	.0000	.0000	2635.1031	2066.5517	567.52664	.01653	.01152	-.00655	.01592	.01103	.00821
24.000	.0000	.0000	2639.67341	2061.72364	567.94977	-.03184	-.02038	.01918	.03123	.02000	.01822
GRADIENT			.55553	.41762	.14089	.00102	-.00003	-.00015	.00064	-.00003	-.00012

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	P	QCOMP	DPTQ42	DPTQ52	DPTQ62	DPTQ44	DPTQ54	DPTQ64
.600	.0000	.0000	2113.98129	1249.92323	864.05185	-.00091	-.00095	-.00188	-.00071	.00054	.00145
2.000	.0000	.0000	2112.95185	1248.77386	863.27899	.00035	.00124	-.00075	.00027	-.00074	-.00145
4.000	.0000	.0000	2118.18833	1252.35219	865.83521	-.00145	.00120	.00155	-.00115	.00095	.00123
6.000	.0000	.0000	2114.6434	1253.29312	864.34464	.00293	.00248	.00286	-.00257	.00201	.00231
8.000	.0000	.0000	2110.03122	1247.57354	863.75758	-.00172	.00040	-.00029	.00112	.00033	.00034
10.000	.0000	.0000	2112.7331	1249.11782	863.61572	.00092	.00117	.00022	.00063	.00059	.00019
12.000	.0000	.0000	2115.6393	1251.25033	864.43839	-.00105	.00147	.00056	.00091	.00091	.00019
14.000	.0000	.0000	2115.02109	1251.05811	864.1124	-.00259	.00240	-.00232	.00235	.00199	.00129
16.000	.0000	.0000	2113.23510	1249.47339	864.95329	.00303	.00111	-.00144	-.00182	.00091	.00129
18.000	.0000	.0000	2113.63570	1249.47339	863.82112	-.00399	.00209	.00209	.00354	.00191	.00129
20.000	.0000	.0000	2111.35470	1248.25033	863.10052	-.00706	.00455	-.00524	.00559	.00355	.00129
22.000	.0000	.0000	2111.78241	1247.85142	862.92493	.01203	.00656	-.00771	.00747	.00368	.00129
24.000	.0000	.0000	2113.14232	1249.39338	863.75931	-.02217	.01510	-.01331	.02160	.01471	.00129
GRADIENT			1.05164	.60574	.14609	-.00013	-.00006	.00039	-.00011	-.00005	-.00005

(FETC05) (02 AUG 75)

PARAMETRIC DATA

A = .000 ELEVON = .000
ALLPON = .000 BDFAP = -7.172

TUBULATED DATA - 0A161 (ARC 11-97-87-09+)
ARC 11-97-87-09+ 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2693.0000 SQ.FT. XMPF = 1076.6900 IN. X0
LREF = 474.8000 IN. YMPF = .0000 IN. Y0
BREF = 935.6900 IN. ZMPF = 375.0000 IN. Z0
SCALE = .0300

RV/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	DPT042	DPT052	DPT054	DPT054	DPT054
1.200	.0000	2003.78+01	828.63679	1165.30751	-.01752	-.01794	-.01345	-.01391	-.01425
ALPHA	.000	2005.93002	827.95351	1165.34581	-.01433	-.01525	-.01238	-.01291	-.01216
2.000	.0000	2006.93002	827.74990	1165.05932	-.01524	-.01508	-.01235	-.01244	-.01231
4.000	.0000	2006.93002	827.49995	1167.47879	-.01559	-.01559	-.01232	-.01235	-.01195
6.000	.0000	2012.21327	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
8.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
10.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
12.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
14.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
16.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
18.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
20.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
22.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
24.000	.0000	2012.68622	823.32523	1167.2747	-.01604	-.01604	-.01232	-.01232	-.01192
GRADIENT					-.00057	-.00057	-.00057	-.00057	-.00057

RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	DPT042	DPT052	DPT054	DPT054	DPT054
1.400	.0000	2043.55790	642.23148	1316.08347	-.01263	-.08951	-.08951	-.08951	-.08951
ALPHA	.000	2048.25000	643.57806	1318.84294	-.10435	-.08759	-.08759	-.08759	-.08759
2.000	.0000	2048.25000	643.57806	1317.75330	-.09847	-.08556	-.08556	-.08556	-.08556
4.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
6.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
8.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
10.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
12.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
14.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
16.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
18.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
20.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
22.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
24.000	.0000	2055.62442	643.57806	1312.67154	-.09526	-.08526	-.08526	-.08526	-.08526
GRADIENT					-.00354	-.00354	-.00354	-.00354	-.00354

(RETCODE) 1 22 AUG 76

TABULATED DATA - 0A161 (ARC 11-97-87-09+)
ARC 11-97-87-09+ 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6900 IN. Y0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 SUFLAP = -7.10

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT054	DPT054
1.550	.0000	.0000	1580.54595	401.10618	1045.16287	-18013	-16149	-15355	-15355
2.000	.0000	.0000	1581.96228	401.46397	1045.11082	-17392	-15569	-15355	-15355
2.500	.0000	.0000	1583.60306	401.36916	1045.84969	-16821	-15569	-15355	-15355
3.000	.0000	.0000	1585.71935	401.59668	1045.91879	-16216	-15569	-15355	-15355
3.500	.0000	.0000	1588.28792	401.54714	1045.31267	-15533	-15569	-15355	-15355
4.000	.0000	.0000	1591.01518	401.96475	1047.45005	-14833	-15569	-15355	-15355
4.500	.0000	.0000	1593.74577	402.14309	1047.86478	-14127	-15569	-15355	-15355
5.000	.0000	.0000	1596.30254	402.03289	1047.57710	-13423	-15569	-15355	-15355
5.500	.0000	.0000	1598.6108	402.59367	1047.73572	-12723	-15569	-15355	-15355
6.000	.0000	.0000	1600.61020	402.26319	1048.17936	-12023	-15569	-15355	-15355
6.500	.0000	.0000	1602.26967	402.26319	1048.20312	-11323	-15569	-15355	-15355
7.000	.0000	.0000	1603.66915	402.12715	1047.91384	-10623	-15569	-15355	-15355
7.500	.0000	.0000	1604.76915	402.01510	1047.53179	-9923	-15569	-15355	-15355
8.000	.0000	.0000	1605.66915	402.06510	1047.17171	-9223	-15569	-15355	-15355

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT054	DPT054
1.750	.0000	.0000	1657.1508	311.37256	1072.15597	-39003	-29223	-26581	-26581
2.000	.0000	.0000	1657.99916	311.41151	1072.31970	-37186	-29223	-26581	-26581
2.500	.0000	.0000	1657.20947	311.27113	1071.81404	-35000	-29223	-26581	-26581
3.000	.0000	.0000	1657.4332	311.15212	1071.34035	-32824	-29223	-26581	-26581
3.500	.0000	.0000	1657.27628	311.28416	1071.85733	-30648	-29223	-26581	-26581
4.000	.0000	.0000	1657.20383	311.23223	1071.69591	-28472	-29223	-26581	-26581
4.500	.0000	.0000	1657.00383	311.14008	1071.36553	-26296	-29223	-26581	-26581
5.000	.0000	.0000	1656.80188	311.05811	1071.72503	-24120	-29223	-26581	-26581
5.500	.0000	.0000	1656.60188	311.15508	1071.42561	-21944	-29223	-26581	-26581
6.000	.0000	.0000	1656.39916	311.10613	1071.24322	-19768	-29223	-26581	-26581
6.500	.0000	.0000	1656.19916	311.10613	1071.54913	-17592	-29223	-26581	-26581
7.000	.0000	.0000	1655.99916	311.20226	1071.65149	-15416	-29223	-26581	-26581
7.500	.0000	.0000	1655.79916	311.20226	1071.77823	-13240	-29223	-26581	-26581
8.000	.0000	.0000	1655.59916	311.26119	1071.09519	-11064	-29223	-26581	-26581

(F7C05) (02 AUG 76)

TABULATED DATA - CA161 (ARC 11-87-87-094)

ARC 11-97-87-094 CA161 ORBITER + RMKES

REFERENCE DATA

SPEF = 2590.0000 SQ.FT.
LREF = 474.8300 IN.
BREF = 935.6800 IN.
SCALE = .0300

PARAMETRIC DATA

BETA = .000
AIRLON = .000
ELEVON = .000
BDFLAP = -7.170

RNVL = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
2.000	.000	.00000	1847.14075	235.84824	1094.43971	.69254	.59006	.51546	.54961	.47420	.43810
2.000	.000	.00000	1845.77534	235.88064	1094.21891	.67887	.57650	.50320	.54190	.46592	.41187
4.000	.000	.00000	1847.06482	235.83535	1094.37987	.66946	.57365	.49381	.53895	.46704	.41050
6.000	.000	.00000	1845.70287	235.79372	1094.17278	.65202	.55899	.49340	.52617	.45770	.40710
8.000	.000	.00000	1846.84723	235.80916	1094.25836	.64199	.55589	.49338	.52243	.45683	.40838
10.000	.000	.00000	1847.73077	235.93651	1094.84930	.62328	.54199	.48747	.51213	.45157	.40661
12.000	.000	.00000	1847.06197	235.84271	1094.41403	.61701	.53595	.48329	.50976	.44668	.40431
14.000	.000	.00000	1846.76268	235.79962	1094.21408	.60652	.53086	.47956	.50492	.44545	.40498
16.000	.000	.00000	1846.78920	235.81072	1094.26558	.59344	.52652	.48045	.49649	.45150	.41373
18.000	.000	.00000	1846.62433	235.78563	1094.14917	.58289	.52300	.48045	.49878	.45052	.41831
20.000	.000	.00000	1846.85003	235.81953	1094.30649	.57371	.51862	.48038	.50822	.45635	.42523
22.000	.000	.00000	1846.82697	235.81627	1094.29134	.56126	.51429	.49286	.52298	.46494	.43422
24.000	.000	.00000	1845.84973	235.68645	1093.68892	.61836	.54549	.49348	.53205	.47233	.43422
GRADIENT			.01898	.00322	.01495	.00577	.00410	.00391	.00267	.00179	.06190

RNVL = 3.03 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
2.250	.000	.00000	2059.62274	178.13523	1059.13588	-1.12618	-92049	-80326	-90572	-75458	-66981
2.000	.000	.00000	2059.69022	178.14101	1059.17059	-1.11243	-90758	-78781	-89924	-74754	-65624
4.000	.000	.00000	2059.24142	178.10249	1058.93941	-1.09235	-90818	-78452	-88779	-75847	-65567
6.000	.000	.00000	2059.67896	178.13995	1059.16425	-1.06319	-88935	-77536	-86857	-73793	-65003
8.000	.000	.00000	2059.63947	178.13554	1059.14375	-1.03566	-86754	-76581	-85215	-72442	-64605
10.000	.000	.00000	2059.11798	178.09175	1058.87497	-1.00444	-85229	-75857	-83187	-71519	-64185
12.000	.000	.00000	2059.74341	179.05964	1058.68224	-98901	-84786	-76126	-82122	-71323	-64517
14.000	.000	.00000	2059.55093	178.12681	1059.09757	-96825	-84291	-75998	-80957	-71220	-64565
16.000	.000	.00000	2059.36752	178.11318	1059.00357	-95190	-83711	-76272	-80245	-71286	-65291
18.000	.000	.00000	2059.83890	178.06788	1058.73170	-94552	-83397	-76176	-80319	-71460	-65842
20.000	.000	.00000	2059.20343	178.09303	1058.91862	-95981	-84397	-76865	-81960	-72861	-66645
22.000	.000	.00000	2058.94348	178.07670	1058.78462	-95903	-84609	-77076	-82378	-73268	-67112
24.000	.000	.00000	2058.85312	178.06898	1058.73825	-1.04131	-91043	-82452	-89998	-79344	-72274
GRADIENT			.09532	.00818	.04911	.00846	.00308	.00469	.00448	.00103	.00254

ORIGINAL PAGE IS
OF POOR QUALITY

(FE7C05) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAMES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6000 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 AILRON =

ELEVON =
 BOFLAP =

PARAMETRIC DATA

RN/L = 2.00 GRADIENT INTERVAL = -5.004 5.00

MACH = 2.500	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
	.0000	.0000	1495.02940	87.42378	658.00838	-1.74164	-1.38837	-1.19652	-1.39909	-1.14438	-1.00038
	2.000	.0000	1495.07198	87.43218	658.02643	-1.71172	-1.37293	-1.18659	-1.38422	-1.13744	-1.00038
	4.000	.0000	1494.35016	87.38912	657.70238	-1.68556	-1.36287	-1.16800	-1.36630	-1.11394	-1.00038
	6.000	.0000	1494.94664	87.42504	657.97271	-1.64843	-1.33416	-1.14188	-1.34513	-1.11298	-1.00038
	8.000	.0000	1495.11034	87.43490	658.04689	-1.59465	-1.30615	-1.11418	-1.30875	-1.09378	-1.00038
	10.000	.0000	1494.33298	87.38847	657.69749	-1.54947	-1.28984	-1.13149	-1.27959	-1.08442	-1.00038
	12.000	.0000	1494.98853	87.42791	657.99431	-1.50336	-1.26121	-1.12018	-1.25239	-1.05790	-1.00038
	14.000	.0000	1494.32796	87.38815	657.69506	-1.45889	-1.24236	-1.11657	-1.22411	-1.05741	-1.00038
	16.000	.0000	1494.89258	87.42212	657.95069	-1.44068	-1.24147	-1.12773	-1.21455	-1.05019	-1.00038
	18.000	.0000	1494.35973	87.39025	657.71090	-1.41842	-1.23152	-1.12184	-1.20451	-1.05019	-1.00038
	20.000	.0000	1494.85466	87.41989	657.93397	-1.41960	-1.24422	-1.13028	-1.20980	-1.07183	-1.00038
	22.000	.0000	1494.36290	87.39047	657.71252	-1.43959	-1.26678	-1.14681	-1.23084	-1.09481	-1.00038
	24.000	.0000	1494.82579	87.42173	657.94775	-1.44643	-1.27881	-1.15563	-1.24523	-1.11152	-1.00038
	GRADIENT					.01402	.00637	.00715	.00820	.00346	.00443

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
	.0000	.0000	1940.57863	51.17667	566.06326	-3.60386	-2.73868	-2.30581	-2.88206	-2.26399	-1.95433
	2.000	.0000	1940.33086	51.16886	565.97688	-3.54337	-2.70730	-2.27127	-2.84418	-2.25497	-1.92972
	4.000	.0000	1939.42018	51.14571	565.72091	-3.46403	-2.67167	-2.24583	-2.79699	-2.23359	-1.91394
	6.000	.0000	1939.65381	51.15674	565.84290	-3.35665	-2.60700	-2.21710	-2.73159	-2.19176	-1.89652
	8.000	.0000	1939.91023	51.13770	565.63232	-3.21372	-2.55411	-2.20374	-2.64084	-2.15907	-1.89173
	10.000	.0000	1939.71480	51.16037	565.88296	-3.12201	-2.51682	-2.18523	-2.58721	-2.13950	-1.88425
	12.000	.0000	1939.08939	51.14639	565.72841	-3.01819	-2.45790	-2.16556	-2.52449	-2.10383	-1.87646
	14.000	.0000	1939.37943	51.15133	565.78307	-2.94724	-2.42536	-2.15626	-2.47941	-2.08410	-1.87455
	16.000	.0000	1939.79555	51.13805	565.63618	-2.88378	-2.41435	-2.15626	-2.44308	-2.08388	-1.88058
	18.000	.0000	1939.37152	51.15323	565.80401	-2.85093	-2.41563	-2.16403	-2.43297	-2.09619	-1.89634
	20.000	.0000	1939.61790	51.16039	565.87935	-2.83504	-2.43432	-2.17803	-2.43184	-2.11962	-1.91493
	22.000	.0000	1938.83843	51.13627	565.63956	-2.87638	-2.48090	-2.21584	-2.47761	-2.16762	-1.95482
	24.000	.0000	1939.35316	51.15332	565.80502	-2.87556	-2.49890	-2.22345	-2.46981	-2.19226	-1.96863
	GRADIENT					.03496	.01475	.04998	.02127	.00911	.01010

(FE7C05) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES.

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RNXL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DPTOM2	DPT052	DPT062	DPT0M4	DPT054	DPT054
3.500	3.500	.00000	2632.31385	34.57549	526.98953	-6.54998	-4.75946	-3.91414	-5.22526	-3.98816	-3.35874
2.000	2.000	.00000	2640.01656	34.58445	527.13617	-6.45172	-4.72145	-3.82707	-5.16263	-3.96189	-3.31719
4.000	4.000	.00000	2640.89956	34.59589	527.31057	-6.24167	-4.61725	-3.82182	-5.03445	-3.89312	-3.29563
6.000	6.000	.00000	2644.64435	34.64481	528.05621	-6.05636	-4.54635	-3.78711	-4.91967	-3.84753	-3.27388
8.000	8.000	.00000	2645.62357	34.67127	528.45953	-5.70792	-4.39026	-3.72564	-4.70377	-3.74543	-3.23705
10.000	10.000	.00000	2646.80231	34.67362	528.49525	-5.49363	-4.29268	-3.68775	-4.56288	-3.68289	-3.21441
12.000	12.000	.00000	2647.36554	34.68086	528.60566	-5.31029	-4.20363	-3.65516	-4.45390	-3.62833	-3.20980
14.000	14.000	.00000	2652.42508	34.74652	529.60644	-5.16798	-4.16136	-3.64626	-4.36862	-3.60679	-3.20456
16.000	16.000	.00000	2653.07376	34.75490	529.73420	-5.02559	-4.11735	-3.62476	-4.28422	-3.58379	-3.19978
18.000	18.000	.00000	2650.25250	34.71894	529.18607	-5.00214	-4.14665	-3.65799	-4.28620	-3.62715	-3.23983
20.000	20.000	.00000	2651.57239	34.73560	529.43997	-4.98551	-4.18178	-3.67867	-4.29059	-3.66753	-3.26528
22.000	22.000	.00000	2652.55411	34.74832	529.63383	-5.01949	-4.25498	-3.72971	-4.34077	-3.74394	-3.32153
24.000	24.000	.00000	2651.96234	34.74070	529.51771	-5.10065	-4.33428	-3.78370	-4.41844	-3.81874	-3.37508
GRADIENT		.00000	.38604	.00510	.07776	.07708	.03555	.02308	.04770	.02376	.01603

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OF POOR QUALITY

(FE7C08) (02 AUG 78)

ARC 11-97-87-094 OA16! ORBITER + RAKES

PARAMETRIC DATA

BETA	=	2,000	ELEVON	=	.000
ALIRON	=	.000	BOFLAP	=	-7.170

REFERENCE DATA

SPREF =	2590.0000	50. FT.	YMRP =	1075.6800	IN.	X0
REF =	474.8600	IN.	YMRP =	.0000	IN.	Y0
SPREF =	935.6800	IN.	ZMRP =	375.0000	IN.	Z0
SCALE =	.0300'					

RN/L = 4.23 GRADIENT INTERVAL = -5.00% 5.00

MACH	ALPHA	BETA	PF	P	QCOMP	DPT042	DPT052	DPT052	DPT052	DPT054	DPT054	DPT054
.500		2.00000	2628.08527	2060.85532	567.22995	.00185	.00230	.00182	.00185	.00133	.00146	DPT054
1.000		2.00000	2625.49564	2058.85480	566.64084	.00202	.00328	.00275	.00263	.00164	.00180	.00180
2.000		2.00000	2627.76624	2060.48868	567.27655	.00330	.00855	.00227	.00284	.00024	.00222	.00222
4.000		2.00000	2627.70064	2059.99594	567.00510	.00069	.00147	.00135	.00120	.00056	.00110	.00110
6.000		2.00000	2625.97894	2060.00323	566.97571	.00298	.00136	.00299	.00112	.00246	.00246	.00246
8.000		2.00000	2626.30542	2059.42654	566.87888	.00153	.00096	.00230	.00046	.00246	.00192	.00192
10.000		2.00000	2626.48074	2059.48074	566.83148	.00117	.00052	.00263	.00100	.00246	.00224	.00224
12.000		2.00000	2626.99167	2061.44455	567.54712	.00116	.00116	.00203	.00101	.00177	.00177	.00177
14.000		2.00000	2628.99167	2061.44455	567.20490	.00099	.00099	.00203	.00025	.00008	.00106	.00106
16.000		2.00000	2627.44873	2060.24384	567.20490	.00095	.00128	.00120	.00025	.00043	.00016	.00016
18.000		2.00000	2626.31006	2059.46307	566.84698	.00198	.00175	.00102	.00159	.00173	.00013	.00013
20.000		2.00000	2626.65659	2059.71997	566.93661	.00611	.00448	.00257	.00415	.00567	.00239	.00239
22.000		2.00000	2624.28891	2057.95145	566.33746	.00634	.00448	.00847	.00789	.01265	.00802	.00802
24.000		2.00000	2624.75047	2057.53900	566.19147	.00800	.00787	.00831	.01725	.02702	.01767	.01767
						.00824	.00824	.00824	.00895	.00895	.00895	.00895

BN/I =	4.23	GRADIENT INTERVAL =	-5.00%	5.00
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MACH	=	.900 ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
		.000	2.00000	2112.48575	1248.91620	883.56955	-.00096	-.08124	-.08124	-.00072	-.00065	-.08093
		2.000	2.00000	2115.92145	1251.04158	884.87988	-.00110	-.09042	-.09042	-.08063	-.08111	-.08111
		4.000	2.00000	2119.15109	1252.90967	885.24142	-.00007	-.09093	-.09093	-.08072	-.08072	-.08005
		6.000	2.00000	2117.58701	1251.97867	885.60834	-.00040	-.09021	-.09041	-.08032	-.08017	-.08032
		8.000	2.00000	2114.79404	1250.37154	886.42252	-.00019	-.09015	-.09015	-.08012	-.08012	-.08023
		10.000	2.00000	2119.07846	1252.94972	886.12875	-.00039	-.09007	-.09026	-.08025	-.08025	-.08025
		12.000	2.00000	2115.97959	1251.07672	884.90266	-.00045	-.09009	-.09009	-.08038	-.08037	-.08008
		14.000	2.00000	2114.68259	1250.28864	884.39597	-.00151	-.09129	-.09124	-.08128	-.08110	-.08103
		16.000	2.00000	2116.90549	1251.61702	885.28848	-.00128	-.09095	-.09095	-.08111	-.08015	-.08063
		18.000	2.00000	2117.39859	1251.88719	885.51141	-.00317	-.09108	-.09250	-.08282	-.08095	-.08196
		20.000	2.00000	2115.91956	1251.01956	884.89105	-.00616	-.09471	-.09589	-.08562	-.08436	-.08536
		22.000	2.00000	2110.44638	1247.78032	882.66608	-.02942	-.09679	-.09892	-.08876	-.08632	-.08650
		24.000	2.00000	2109.08810	1246.94112	882.17700	-.02825	-.09169	-.09109	-.08193	-.08109	-.08109
		CRITICAL	2.00000	1.66536	.99836	.66797	.00024	.00045	.00029	.00018	.00034	.08024

(FE7C08) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-08%)
 ARC 11-97-87-08% 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 ALLRON = .000 BDFLAP = -3.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
ALPHA	2.00000	2003.55424	828.75637	1165.48990	-0.1748	-0.1684	-0.1676	-0.1356	-0.1307	-0.1301
2.000	2.00000	2008.90266	828.44971	1166.04420	-0.1815	-0.1780	-0.1582	-0.1405	-0.1378	-0.1226
4.000	2.00000	2009.08881	828.45168	1166.04684	-0.1698	-0.1559	-0.1367	-0.1298	-0.1228	-0.1077
6.000	2.00000	2012.49275	829.60759	1167.67398	-0.1625	-0.1489	-0.1367	-0.1305	-0.1197	-0.1191
8.000	2.00000	2012.15788	829.57092	1167.62238	-0.1734	-0.1681	-0.1486	-0.1398	-0.1348	-0.1194
10.000	2.00000	2011.92180	829.36008	1167.32553	-0.1610	-0.1581	-0.1442	-0.1267	-0.1245	-0.1136
12.000	2.00000	2013.54626	829.94049	1168.14247	-0.1628	-0.1521	-0.1465	-0.1276	-0.1192	-0.1148
14.000	2.00000	2015.19850	830.44010	1168.79063	-0.1685	-0.1583	-0.1528	-0.1346	-0.1265	-0.1216
16.000	2.00000	2013.69295	829.94411	1168.14755	-0.1686	-0.1585	-0.1537	-0.1378	-0.1295	-0.1256
18.000	2.00000	2013.23676	829.86232	1168.03244	-0.1680	-0.1574	-0.1537	-0.1357	-0.1295	-0.1256
20.000	2.00000	2017.18069	830.97342	1169.59631	-0.1755	-0.1680	-0.1688	-0.1557	-0.1420	-0.1359
22.000	2.00000	2019.10837	831.85905	1170.89317	-0.2412	-0.1980	-0.1888	-0.1812	-0.1666	-0.1588
24.000	2.00000	2020.01411	832.02087	1171.07062	-0.2980	-0.2550	-0.2489	-0.2063	-0.1912	-0.1795
GRADIENT	.00000	-1.1837	-0.07863	-1.11077	.00025	.00031	.00077	.00014	.00020	.00056

RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
ALPHA	2.00000	2044.20187	642.54803	1346.73218	-0.10405	-0.09455	-0.08175	-0.07878	-0.07174	-0.06220
2.000	2.00000	2046.48904	643.12830	1317.92126	-0.09599	-0.09158	-0.07944	-0.07408	-0.06996	-0.06085
4.000	2.00000	2041.44493	641.78366	1315.16579	-0.09049	-0.08996	-0.07908	-0.07809	-0.06969	-0.06134
6.000	2.00000	2044.57449	642.82668	1316.88333	-0.09171	-0.08881	-0.07722	-0.07186	-0.06963	-0.06088
8.000	2.00000	2040.79663	641.78628	1315.00722	-0.08934	-0.08589	-0.07653	-0.07870	-0.06888	-0.06072
10.000	2.00000	2035.77562	648.44118	1312.41475	-0.08923	-0.08540	-0.07600	-0.07139	-0.06936	-0.05916
12.000	2.00000	2036.94429	640.72521	1312.99680	-0.08708	-0.08443	-0.07316	-0.07025	-0.06572	-0.05371
14.000	2.00000	2038.66687	641.42471	1314.43022	-0.08310	-0.08033	-0.07288	-0.06795	-0.06572	-0.05602
16.000	2.00000	2039.80768	641.40278	1314.38522	-0.08148	-0.08148	-0.07288	-0.06894	-0.06756	-0.06001
18.000	2.00000	2038.32677	641.26414	1314.10118	-0.07730	-0.08134	-0.07179	-0.07807	-0.06783	-0.06374
20.000	2.00000	2033.81595	639.92600	1311.35902	-0.08334	-0.08375	-0.07598	-0.07807	-0.07407	-0.06737
22.000	2.00000	2023.58159	637.19749	1305.76765	-0.08895	-0.08801	-0.07993	-0.08315	-0.07407	-0.07164
24.000	2.00000	2021.60355	636.67937	1304.70592	-0.10546	-0.09213	-0.08433	-0.08933	-0.07819	-0.07022
GRADIENT	.00000	-0.68921	-1.19108	-1.39160	.00115	.00068	.00068	.00217	.00051	.00051

(FETC06) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 938.8900 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
1.500	.000	2.00000	1568.49995	397.96504	1036.97801	-18256	-16302	-14578	-13822	-12393	-11122
2.000	.000	2.00000	1570.75030	398.53608	1038.46596	-17925	-16118	-14409	-13719	-12307	-11106
4.000	.000	2.00000	1572.20036	398.86619	1039.32613	-17268	-15908	-14003	-13334	-11940	-10882
6.000	.000	2.00000	1572.37077	398.90957	1039.43916	-16747	-14780	-13558	-13115	-11617	-10661
8.000	.000	2.00000	1573.70795	399.28253	1040.33282	-16185	-14564	-13374	-12811	-11561	-10639
10.000	.000	2.00000	1573.65640	399.24512	1040.31351	-15978	-14542	-13447	-12763	-11644	-10788
12.000	.000	2.00000	1572.64693	398.98661	1039.63991	-15348	-14174	-13066	-12388	-11449	-10589
14.000	.000	2.00000	1572.69780	399.00035	1039.67572	-15724	-14511	-13174	-12793	-11829	-10782
16.000	.000	2.00000	1572.12041	398.84422	1039.27986	-15808	-14518	-13223	-12688	-11897	-10858
18.000	.000	2.00000	1571.97598	399.81442	1039.19070	-15248	-14394	-13307	-12571	-11882	-11003
20.000	.000	2.00000	1571.97598	399.36440	1040.62433	-15574	-14688	-13441	-12980	-12183	-11169
22.000	.000	2.00000	1574.13762	399.93516	1042.11156	-16170	-15271	-14174	-13425	-12695	-11802
24.000	.000	2.00000	1576.99655	400.08383	1042.49895	-16830	-15941	-15194	-14022	-13298	-12699
GRADIENT			.92511	.22529	.56703	.00247	.00224	.06144	.00122	.00113	.00050

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
1.750	.000	2.00000	1656.77100	311.18817	1071.93611	-35934	-31499	-28148	-27515	-24305	-21846
2.000	.000	2.00000	1655.31691	310.91837	1070.59709	-35161	-30795	-27562	-27088	-23902	-21511
4.000	.000	2.00000	1655.46857	310.54666	1070.69418	-34396	-29908	-26837	-26743	-23428	-21130
6.000	.000	2.00000	1656.56386	310.57610	1070.77524	-33665	-29666	-26588	-26348	-23370	-21051
8.000	.000	2.00000	1656.17558	311.07782	1071.14615	-33401	-29407	-26543	-26304	-23307	-21134
10.000	.000	2.00000	1656.23152	311.08852	1071.13300	-32832	-29208	-26979	-26529	-23380	-20900
12.000	.000	2.00000	1656.29276	311.09915	1071.22861	-30543	-27945	-25432	-25470	-22643	-2068
14.000	.000	2.00000	1656.36481	311.11328	1071.26796	-30284	-27475	-25468	-24740	-22534	-2032
16.000	.000	2.00000	1655.64990	310.98056	1070.81129	-28871	-26748	-24626	-23884	-22173	-20472
18.000	.000	2.00000	1655.12805	311.06919	1071.11641	-29121	-27064	-25245	-24196	-22548	-21083
20.000	.000	2.00000	1656.39803	311.11927	1071.28888	-30126	-27976	-25957	-25085	-23359	-21649
22.000	.000	2.00000	1656.98810	311.04332	1071.02734	-31275	-28304	-26253	-26262	-23854	-22181
24.000	.000	2.00000	1655.65131	310.98100	1070.81276	-32129	-28466	-26565	-27142	-24152	-22590
GRADIENT			.32568	.08040	.20799	.08385	.00398	.00328	.00193	.00219	.00179

(FE7686) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = 0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0360

RM/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000
ALPHA

ALPHA	BETA	PT	P	QCOMP	DPTQ42	DPT052	DPT062	DPT044	DPT054	DPT064
2.000	2.00000	1845.98238	235.71687	1093.83054	-66232	-55706	-48782	-52092	-44418	-39236
2.000	2.00000	1845.98219	235.68356	1093.67549	-64538	-54716	-48015	-51075	-43848	-38812
4.000	2.00000	1844.79626	235.56110	1093.10722	-63616	-53682	-47220	-50766	-43371	-38461
6.000	2.00000	1844.68850	235.46566	1092.66437	-61428	-52782	-46571	-49426	-42919	-38159
8.000	2.00000	1845.65612	235.59471	1093.26320	-60849	-52465	-46437	-48990	-42798	-38159
10.000	2.00000	1845.94762	235.71702	1093.83081	-59772	-51737	-46445	-48836	-42663	-38335
12.000	2.00000	1845.38353	235.63526	1093.45602	-57330	-50981	-45942	-47014	-42114	-38172
14.000	2.00000	1846.05315	235.72144	1093.85130	-58050	-50536	-45606	-47817	-41979	-38335
16.000	2.00000	1846.19392	235.73832	1093.93427	-54991	-49991	-45675	-46475	-41768	-38344
18.000	2.00000	1846.65709	235.79776	1094.20544	-54850	-49716	-45385	-45940	-41855	-38741
20.000	2.00000	1847.20553	235.88923	1094.62527	-55361	-50315	-45385	-46788	-42738	-39692
22.000	2.00000	1847.20595	235.88139	1094.59354	-56764	-50512	-46131	-48356	-43286	-40081
24.000	2.00000	1846.34912	235.77158	1094.08394	-57065	-50472	-46388	-48920	-43529	-40081
GRADIENT	.00000	-.29651	-.03997	-.18083	.00654	.00506	.00385	.00333	.00262	.00194

MACH = 2.250
ALPHA

ALPHA	BETA	PT	P	QCOMP	DPTQ42	DPT052	DPT062	DPT044	DPT054	DPT064
2.000	2.00000	2059.21463	178.10006	1068.92479	-1.11160	-90201	-78552	-86035	-71415	-62996
2.000	2.00000	2059.05692	178.08847	1068.84325	-1.09028	-88205	-77083	-84988	-70287	-62170
4.000	2.00000	2059.38257	178.11435	1069.01056	-1.06463	-87543	-75807	-83850	-69161	-61519
6.000	2.00000	2059.19321	178.09820	1068.91364	-1.02663	-85144	-74252	-81473	-68798	-60582
8.000	2.00000	2059.07996	178.08838	1068.85469	-99776	-83699	-73583	-79922	-68135	-60520
10.000	2.00000	2059.48004	178.12256	1069.05988	-97679	-82223	-73500	-78703	-67272	-60564
12.000	2.00000	2058.62692	178.04962	1068.62146	-95115	-80990	-72723	-77389	-66557	-60407
14.000	2.00000	2059.07443	178.08753	1068.95205	-93335	-80986	-72723	-76287	-66875	-60605
16.000	2.00000	2058.51588	178.04855	1068.61566	-91205	-79904	-72433	-75328	-66674	-60658
18.000	2.00000	2058.53253	178.04136	1068.57248	-90928	-79670	-72523	-75640	-67094	-61323
20.000	2.00000	2058.52417	178.04055	1068.56763	-90424	-78865	-72861	-75630	-68195	-61874
22.000	2.00000	2058.59705	178.04666	1068.60429	-89817	-78981	-73819	-78065	-69590	-63163
24.000	2.00000	2058.37766	178.02781	1068.49115	-89214	-78838	-72812	-77425	-68384	-62717
GRADIENT	.00000	-.04193	.00357	.02144	.01174	.00664	.00686	.00596	.00314	.00359

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(FE7C06) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XCRP = 1076.6880 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0368

BETA = 2.000 ELEVON = .000
 AIRLON = .000 EDFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.004 5.09

MACH	ALPHA	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
2.500	.000	2.00000	1487.32057	86.97802	654.60834	-1.64472	-1.29140	-1.11340	-1.30045	-1.05046	-91898
2.000	2.080	2.00000	1487.99101	87.01836	654.91200	-1.61589	-1.27932	-1.10909	-1.28040	-1.04153	-91565
4.000	4.000	2.00000	1487.96725	87.01707	654.90220	-1.59081	-1.26455	-1.08723	-1.27088	-1.03649	-91397
6.000	6.000	2.00000	1487.96211	87.01669	654.89940	-1.54538	-1.23850	-1.07280	-1.24581	-1.02231	-89567
8.000	8.000	2.00000	1487.95708	87.01653	654.89824	-1.48368	-1.20749	-1.06073	-1.20822	-1.00463	-89198
10.000	10.000	2.00000	1487.91705	87.01443	654.88243	-1.43975	-1.18380	-1.04932	-1.17977	-98876	-88598
12.000	12.000	2.00000	1487.93314	87.01538	654.88966	-1.39883	-1.16748	-1.04494	-1.15698	-98200	-88590
14.000	14.000	2.00000	1487.92639	87.01463	654.88538	-1.37043	-1.16710	-1.04523	-1.13964	-98477	-88976
16.000	16.000	2.00000	1487.94725	87.01604	654.89454	-1.34807	-1.16742	-1.04722	-1.12645	-98799	-89389
18.000	18.000	2.00000	1487.92914	87.01502	654.88682	-1.34490	-1.17161	-1.04855	-1.12992	-99610	-89911
20.000	20.000	2.00000	1487.96275	87.01727	654.90379	-1.33421	-1.17258	-1.05292	-1.13010	-1.00384	-90858
22.000	22.000	2.00000	1487.95438	87.01694	654.90131	-1.32543	-1.16828	-1.05342	-1.13429	-1.00965	-91698
24.000	24.000	2.00000	1487.98357	87.01867	654.91432	-1.33113	-1.17167	-1.05618	-1.14938	-1.02049	-92618
GRADIENT		.00000	.16166	.00976	.07349	.01348	.00671	.00654	.00739	.00349	.00377

RN/L = 1.93 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
3.000	.000	2.00000	1939.15904	51.12361	565.47639	-3.23743	-2.43705	-2.08035	-2.59873	-2.03198	-1.76501
2.000	2.000	2.00000	1940.13321	51.14938	565.76151	-3.20198	-2.42382	-2.04018	-2.57717	-2.02487	-1.74833
4.000	4.000	2.00000	1939.45256	51.13434	565.59507	-3.15557	-2.39928	-2.04018	-2.55348	-2.01134	-1.74002
6.000	6.000	2.00000	1939.90688	51.13526	565.60524	-3.04859	-2.34755	-2.01738	-2.48812	-1.97996	-1.72738
8.000	8.000	2.00000	1939.64354	51.14013	565.65913	-2.88585	-2.27730	-1.98226	-2.39772	-1.94559	-1.71440
10.000	10.000	2.00000	1937.17825	51.07750	564.96639	-2.84483	-2.26854	-1.98732	-2.35917	-1.93107	-1.71363
12.000	12.000	2.00000	1929.09195	51.10284	565.24653	-2.74748	-2.25533	-1.96886	-2.29541	-1.91043	-1.70392
14.000	14.000	2.00000	1937.60146	51.08700	565.07146	-2.66172	-2.24067	-1.95446	-2.24313	-1.89882	-1.69870
16.000	16.000	2.00000	1939.26842	51.13321	565.57153	-2.62669	-2.22012	-1.96140	-2.22673	-1.91475	-1.71352
18.000	18.000	2.00000	1938.58479	51.1276	565.35637	-2.59234	-2.21825	-1.96550	-2.21268	-1.9271	-1.72155
20.000	20.000	2.00000	1938.72614	51.12192	565.45771	-2.58513	-2.22668	-1.97564	-2.22087	-1.94020	-1.73532
22.000	22.000	2.00000	1938.94917	51.12888	565.53468	-2.60854	-2.25554	-1.98197	-2.25198	-1.97582	-1.76937
24.000	24.000	2.00000	1938.90468	51.12836	565.52891	-2.63718	-2.28045	-2.00197	-2.28922	-1.97556	-1.79571
GRADIENT		.00000	.07349	.00268	.02967	.02046	.00944	.01004	.01131	.00516	.00625

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7E061 (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0360

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 ALLRON = .000 BDFLAP = -7.170

RM/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500

ALPHA	BETA	PT	P	OCOMP	DPT042	DPT062	DPT044	DPT054	DPT054
3.500	2.00000	2667.88812	34.95021	532.71109	-5.84998	-4.23553	-4.67376	-3.56225	-3.03958
4.000	2.00000	2667.98584	34.95149	532.73055	-5.75945	-4.28058	-4.61205	-3.52573	-3.00672
6.000	2.00000	2667.95579	34.94608	532.64689	-5.62176	-4.13840	-4.53537	-3.49036	-2.99133
8.000	2.00000	2668.65705	34.96039	532.86630	-5.44148	-4.04809	-4.42424	-3.43004	-2.95968
10.000	2.00000	2662.83286	34.96260	532.89992	-5.26225	-3.96576	-4.31734	-3.38003	-2.94829
12.000	2.00000	2667.49628	34.94465	532.62630	-5.00397	-3.89568	-4.15132	-3.33683	-2.93095
14.000	2.00000	2669.63775	34.97392	533.07244	-4.83928	-3.85011	-4.05262	-3.31539	-2.91942
16.000	2.00000	2668.85501	34.96312	532.90790	-4.71536	-3.83556	-3.97736	-3.31590	-2.91244
18.000	2.00000	2669.65961	34.97344	533.06512	-4.59955	-3.80829	-3.91212	-3.30991	-2.91895
20.000	2.00000	2668.67300	34.96078	532.80227	-4.51848	-3.81188	-3.89061	-3.33008	-2.95035
22.000	2.00000	2570.18805	34.95334	533.17038	-4.50005	-3.84372	-3.91428	-3.36650	-2.98463
24.000	2.00000	2668.19308	34.95369	532.76417	-4.58442	-3.86548	-3.97352	-3.41974	-3.01877
GRADIENT	2.00000	2670.01163	34.97799	533.13458	-4.68592	-3.96570	-4.05975	-3.49493	-3.08231
	.00000	- .08307	- .00105	- .01603	.05705	.02428	.03435	.01547	.01206

STABLISHED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES.

REFERENCE DATA

=	2630.0000	SQ.FT.	=	1076.6800	IN.	XO
=	474.8000	IN.	=	.0000	IN.	YO
=	936.6800	IN.	=	375.0000	IN.	ZO
=	.0300					

BETA	=	5.000	ELEVON	=	-0.000
ATLON	=	.000	BDFLAP	=	-7.170

PN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

#	MACH	ALPHA	BETA	PT	P	QCOMP	DP1042	DP1052	DP1062	DP1044	DP1054	DP1064
.500			5.00000	2624.00095	2057.68289	556.31899	.00181	.00087	.00093	.00139	.00066	.00064
1.000			5.00000	2623.93231	2057.61972	556.31259	.00130	.00112	.00126	.00100	.00086	.00096
2.000			5.00000	2624.85635	2058.36877	556.48758	.00076	.00237	.00443	.00059	.06181	.00339
4.000			5.00000	2627.65573	2060.37476	557.28098	.00039	.00071	.00104	.00030	.00083	.00081
6.000			5.00000	2627.65573	2060.37476	557.28098	.00039	.00071	.00104	.00030	.00083	.00081
8.000			5.00000	2625.01135	2058.40189	556.60947	.00238	.00259	.00292	.00189	.00205	.00231
10.000			5.00000	2625.86368	2059.00568	556.85800	.00190	.00258	.00321	.00152	.00207	.00255
12.000			5.00000	2624.17437	2057.86670	556.30737	.00195	.00203	.00220	.00160	.00166	.00180
14.000			5.00000	2624.36069	2059.02087	556.33981	.00152	.00332	.00221	.00127	.00277	.00164
16.000			5.00000	2624.72836	2058.21162	556.51654	.00120	.00196	.00217	.00102	.00167	.00185
18.000			5.00000	2627.18732	2059.98523	557.20209	.00137	.00043	.00020	.00120	.00038	.00018
20.000			5.00000	2627.48154	2060.22818	567.25336	.00361	.00230	.00103	.00326	.00207	.00093
22.000			5.00000	2625.04254	2058.51157	556.53098	.00139	.00712	.00450	.00957	.00657	.00415
24.000			5.00000	2625.90552	2059.18518	556.72034	.02651	.01622	.01370	.02502	.01532	.00590
GRADIENT			.00000	.21397	.17195	.04238	.00026	.00038	.00090	.00020	.00029	.00029

AN/L = 4.23 GRADIENT INTERVAL = -5.004 5.007

MACH	ALPHA	BETA	PT	P	QCOMP	DPTOM2	DPT052	DPT062	DPTOM4	DPT054	DPT054
.900	.000	5.00000	2111.49715	1249.50783	862.97934	.00097	.00035	-.00053	-.00068	.00024	.00024
2.000	.000	5.00000	2115.43283	1250.78174	864.65109	.00247	.00251	-.00243	-.00173	.00179	.00173
4.000	.000	5.00000	2117.10138	1251.73029	865.37109	-.00083	.00043	-.00062	-.00068	.00031	.00045
6.000	.000	5.00000	2114.79214	1250.37328	864.41888	.00026	-.00062	-.00059	-.00044	-.00046	-.00044
8.000	.000	5.00000	2109.96957	1247.40634	862.56323	.00180	.00136	.00264	-.00135	.00101	.00198
10.000	.000	5.00000	2116.56833	1251.47731	865.09103	.00051	.00122	.00140	-.00039	.00054	.00113
12.000	.000	5.00000	2116.71036	1251.56195	865.14841	.00016	.00011	-.00031	.00013	.00009	.00024
14.000	.000	5.00000	2112.28323	1248.90517	863.37808	.00217	.00244	.00248	.00176	.00198	.00201
16.000	.000	5.00000	2114.90735	1250.47287	864.47287	-.00072	.00057	.00106	-.00059	.00056	.00068
18.000	.000	5.00000	2115.76746	1250.94567	864.82088	.00049	.00261	.00213	-.00302	-.00223	-.00160
20.000	.000	5.00000	2108.11169	1246.37889	861.73282	-.00469	.00237	.00192	-.00409	.00207	.00160
22.000	.000	5.00000	2103.97069	1247.37915	862.59174	-.00857	-.00569	-.00477	-.00766	-.00588	.00427
24.000	.000	5.00000	2116.70166	1251.52284	865.27884	.01861	-.01248	-.01098	-.01716	-.01131	.00131
GRADIENT		.00000	1.40354	.86562	.59794	-.00045	.00002	.00000	-.00032	.00002	.00002

(FE7607) (08 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALLRON = .008 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2590.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0800 IN. ZO
SCALE = .0300

RM/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200

ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
0.000	5.00000	2011.53659	829.44221	1157.44115	-.02036	-.01913	-.01832	-.01596	-.01415	-.01355
2.000	5.00000	2009.60754	829.83453	1166.58583	-.01968	-.01886	-.01724	-.01439	-.01377	-.01262
4.000	5.00000	2010.75175	829.08212	1166.93431	-.01991	-.01799	-.01710	-.01488	-.01345	-.01280
6.000	5.00000	2013.55270	830.00262	1168.22932	-.01872	-.01657	-.01639	-.01432	-.01298	-.01258
8.000	5.00000	2013.06412	829.84943	1169.01431	-.01837	-.01703	-.01611	-.01429	-.01311	-.01241
10.000	5.00000	2013.08351	829.88634	1169.06627	-.01777	-.01649	-.01506	-.01356	-.01258	-.01150
12.000	5.00000	2013.92959	830.14828	1168.43494	-.01769	-.01671	-.01509	-.01357	-.01260	-.01138
14.000	5.00000	2014.49037	830.35471	1168.72548	-.01853	-.01786	-.01638	-.01508	-.01397	-.01292
16.000	5.00000	2014.72244	830.37983	1168.76095	-.01924	-.01781	-.01660	-.01508	-.01402	-.01309
18.000	5.00000	2016.25215	850.79547	1169.34566	-.02015	-.01761	-.01643	-.01439	-.01339	-.01235
20.000	5.00000	2018.08566	831.44070	1170.25401	-.02117	-.01775	-.01656	-.01452	-.01357	-.01257
22.000	5.00000	2016.50551	830.88932	1169.47824	-.02266	-.01850	-.01602	-.01458	-.01327	-.01188
24.000	5.00000	2018.10297	831.41154	1170.21298	-.02718	-.02225	-.02162	-.02288	-.01675	-.01822
GRADIENT	.00000	-.18549	-.09002	-.12571	.00811	.00029	.00050	.00034	.00018	.00019

RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400

ALPHA	BETA	PT	P	QCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
0.000	5.00000	2051.64871	644.49467	1320.72128	-.09301	-.08332	-.07293	-.06776	-.06085	-.05297
2.000	5.00000	2052.59685	644.77777	1321.30142	-.09181	-.08572	-.07476	-.06723	-.06267	-.05498
4.000	5.00000	2045.37286	642.84837	1317.34763	-.08340	-.07893	-.06942	-.06365	-.05881	-.05180
6.000	5.00000	2043.72565	642.43147	1316.49332	-.08336	-.07900	-.06968	-.06264	-.05943	-.05253
8.000	5.00000	2039.74538	641.18606	1313.94118	-.08277	-.07778	-.06906	-.06288	-.05915	-.05202
10.000	5.00000	2037.39092	640.82363	1313.19847	-.07952	-.07441	-.06741	-.06121	-.05734	-.05202
12.000	5.00000	2038.57905	641.10638	1313.77788	-.07838	-.07323	-.06698	-.06094	-.05700	-.05144
14.000	5.00000	2044.59929	642.62520	1317.01324	-.07516	-.07084	-.06389	-.05931	-.05595	-.05045
16.000	5.00000	2042.24944	642.08685	1315.78711	-.07299	-.06982	-.06296	-.05964	-.05618	-.05165
18.000	5.00000	2029.50903	639.78069	1309.01198	-.07532	-.07192	-.06446	-.06137	-.05834	-.05355
20.000	5.00000	2032.02077	639.50005	1310.48613	-.07879	-.07355	-.06624	-.06433	-.06111	-.05420
22.000	5.00000	2035.46525	640.41441	1312.35988	-.08436	-.07899	-.06967	-.06937	-.06321	-.05692
24.000	5.00000	2020.62716	636.51413	1304.36728	-.08942	-.08637	-.07333	-.07460	-.06739	-.06133
GRADIENT	.00000	-1.56397	-.41158	-.84341	.06198	.00106	.00073	.00112	.00051	.00029

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7C07) (02 AUG 76)

REFERENCE DATA

SREF = 2650.0100 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 986.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 ALLRON = .000 BOFLAP = -2.170

RNL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550 ALPHA	BETA	PT	P	OOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
5.00000	1561.82259	396.34618	1032.78972		-1.17486	-1.5209	-1.3713	-1.2630	-1.1057	-1.0009
5.00000	1563.04628	386.65676	1033.56805		-1.17561	-1.5059	-1.3591	-1.2720	-1.0978	-0.9942
5.00000	1563.16922	386.66547	1033.59172		-1.17003	-1.4461	-1.3264	-1.2412	-1.0619	-0.9767
5.00000	1563.46520	386.74025	1033.78656		-1.16090	-1.4201	-1.2780	-1.1968	-1.0509	-0.9570
5.00000	1567.33949	397.71354	1036.32269		-1.14799	-1.3108	-1.1677	-1.1165	-0.9325	-0.8689
5.00000	1572.23886	398.95424	1038.55556		-1.14866	-1.3490	-1.1897	-1.1208	-1.0111	-0.9143
5.00000	1570.17735	398.42982	1038.18909		-1.14508	-1.3123	-1.1794	-1.1073	-0.9918	-0.9296
5.00000	1568.15354	397.92425	1036.87173		-1.13782	-1.2583	-1.1695	-1.1009	-0.9817	-0.9215
5.00000	1568.63318	398.03831	1037.16893		-1.14035	-1.2852	-1.1833	-1.1220	-1.0017	-0.9104
5.00000	1568.80566	398.07167	1037.25586		-1.14150	-1.2349	-1.1433	-1.1086	-0.9556	-0.8822
5.00000	1568.57487	398.12064	1037.39345		-1.13673	-1.1873	-1.1078	-1.1086	-0.9277	-0.8504
5.00000	1571.11673	398.66999	1038.91490		-1.13577	-1.2396	-1.1449	-1.1294	-1.0277	-0.9324
5.00000	1571.43858	398.73846	1038.99330		-1.13983	-1.3142	-1.2338	-1.1656	-1.0584	-0.9324
5.00000	1571.43858	398.73846	1038.99330		-1.13983	-1.3142	-1.2338	-1.1656	-1.0584	-0.9324
GRADIENT	.33655	.07983	.20800		.00116	.06187	.00114	.00054	.00103	.00080

RNL = 7.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750 ALPHA	BETA	PT	P	OOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
5.00000	1655.65066	310.98268	1070.81854		-1.33121	-2.8432	-2.5333	-2.4736	-2.1425	-1.9183
5.00000	1655.87311	311.02239	1070.95529		-1.32004	-2.7921	-2.4944	-2.4125	-2.1289	-1.9054
5.00000	1655.81648	311.01186	1070.91904		-1.30517	-2.7234	-2.4449	-2.3786	-2.0719	-1.8598
5.00000	1656.53960	311.14693	1071.38103		-1.30659	-2.6876	-2.4200	-2.3406	-2.0559	-1.8624
5.00000	1655.73843	310.99725	1070.86871		-1.29264	-2.5916	-2.3612	-2.2614	-2.0146	-1.8430
5.00000	1655.74200	310.99860	1070.87334		-1.28841	-2.5658	-2.3234	-2.2433	-2.0057	-1.8248
5.00000	1654.94193	310.82005	1070.25954		-1.28015	-2.5472	-2.2962	-2.2131	-1.9716	-1.8111
5.00000	1656.26360	311.09286	1071.19794		-1.27846	-2.5440	-2.3274	-2.1962	-1.9557	-1.8055
5.00000	1655.03857	311.05466	1071.06638		-1.27501	-2.5208	-2.2956	-2.1906	-1.9577	-1.8031
5.00000	1655.92122	310.85534	1070.39005		-1.27181	-2.5207	-2.2840	-2.1906	-1.9577	-1.8031
5.00000	1654.73504	310.79940	1070.18747		-1.27496	-2.5431	-2.3311	-2.2392	-2.0773	-1.9181
5.00000	1655.71509	310.98600	1070.82997		-1.28042	-2.5859	-2.3809	-2.3188	-2.1446	-1.9881
5.00000	1656.66179	311.16761	1071.45531		-1.28371	-2.6405	-2.4376	-2.3685	-2.2100	-2.0456
5.00000	1656.66179	311.16761	1071.45531		-1.28371	-2.6405	-2.4376	-2.3685	-2.2100	-2.0456
GRADIENT	.03946	.00730	.02512		.00491	.00299	.00213	.00239	.00177	.00121

(FE7C07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RV/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	ALPHA	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
	.000	5.00000	1834.93884	234.25348	1087.03931	-6.1734	-5.1887	-4.6011	-4.7132	-4.0193	-3.5555
	2.000	5.00000	1830.93913	233.75630	1084.73218	-6.1135	-5.1394	-4.5413	-4.6788	-3.9900	-3.5571
	4.000	5.00000	1831.46227	233.83033	1085.07568	-6.0103	-5.1339	-4.5235	-4.6360	-4.0101	-3.5549
	6.000	5.00000	1831.73577	233.86808	1085.25089	-5.8416	-4.9680	-4.4177	-4.5554	-3.9365	-3.5145
	8.000	5.00000	1834.07381	234.17492	1086.67477	-5.6202	-4.8166	-4.2992	-4.4341	-3.8418	-3.4535
	10.000	5.00000	1835.11595	234.42052	1087.81444	-5.4253	-4.7526	-4.2255	-4.3239	-3.8216	-3.4217
	12.000	5.00000	1836.10439	234.41899	1087.80734	-5.4028	-4.6665	-4.1542	-4.3288	-3.7749	-3.4137
	14.000	5.00000	1841.38952	235.10691	1090.99960	-5.2333	-4.6782	-4.1919	-4.2426	-3.7172	-3.4414
	16.000	5.00000	1849.86311	236.19734	1096.05969	-5.2183	-4.6771	-4.1944	-4.3377	-3.6744	-3.4705
	18.000	5.00000	1849.98158	235.21237	1096.15729	-5.2753	-4.7422	-4.3354	-4.3377	-3.6237	-3.6043
	20.000	5.00000	1845.65546	235.66004	1093.56639	-5.1642	-4.6965	-4.2793	-4.2890	-3.6210	-3.5896
	22.000	5.00000	1847.52986	235.89360	1094.55019	-5.0321	-4.6306	-4.1708	-4.2317	-3.6107	-3.5336
	24.000	5.00000	1848.52892	235.04575	1095.35625	-5.0777	-4.5672	-4.2104	-4.3216	-3.6144	-3.5144
	GRADIENT	.00000	-1.85914	-1.10579	-1.49091	.00408	.00137	.00154	.00193	.00023	.00077

MACH = 2.250	ALPHA	BETA	PT	P	OCOMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
	.000	5.00000	2059.36877	178.11419	1069.00958	-9.6061	-7.8115	-6.8422	-7.4259	-6.1667	-5.4642
	2.000	5.00000	2058.48529	178.03863	1068.95612	-9.5040	-7.7524	-6.8116	-7.3903	-6.1512	-5.4645
	4.000	5.00000	2059.33249	178.11115	1068.99139	-9.4784	-7.7675	-6.7780	-7.3821	-6.1705	-5.4468
	6.000	5.00000	2059.45581	178.12163	1069.05426	-9.1345	-7.5472	-6.6705	-7.1576	-6.0219	-5.3766
	8.000	5.00000	2058.44626	178.03483	1068.53333	-8.7611	-7.2839	-6.4540	-6.9534	-5.8804	-5.2591
	10.000	5.00000	2059.21459	178.10055	1068.92778	-8.5048	-7.2216	-6.4410	-6.8557	-5.9235	-5.3073
	12.000	5.00000	2058.73552	178.05887	1069.67758	-8.3318	-7.2253	-6.235	-6.8059	-5.9317	-5.3171
	14.000	5.00000	2058.33539	178.02526	1069.47466	-8.1733	-7.0253	-6.2473	-6.6830	-5.8117	-5.2950
	16.000	5.00000	2059.73508	178.14466	1069.19247	-8.2041	-7.0775	-6.3115	-6.7456	-5.8915	-5.2950
	18.000	5.00000	2058.78250	178.06276	1068.70093	-8.0885	-7.0641	-6.3505	-6.7068	-5.9146	-5.2957
	20.000	5.00000	2058.63272	178.13587	1068.13972	-7.9516	-7.0373	-6.3541	-6.6647	-5.9405	-5.2977
	22.000	5.00000	2059.95166	178.07758	1068.76992	-7.9526	-7.0601	-6.3564	-6.6878	-5.9645	-5.2934
	24.000	5.00000	2058.71259	178.05685	1068.65347	-7.8181	-7.1813	-6.4985	-6.9295	-6.1453	-5.2934
	GRADIENT	.00000	-1.00997	-1.00076	-1.00455	.00324	.00113	.00151	.00110	.00010	.00043

(FE7C07) (02 AUG 75)

TABULATED DATA - 0A16J (ARC 11-97-87-09H)

ARC 11-97-87-09H 0A16J ORBITTER + RAKES

REFERENCE DATA

SREF = 2680.1000 SQ.FT. XMRP = 1078.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

RNL = 2.00 GRADIENT INTERVAL = -5.00V 5.00

MACH	ALPHA	BETA	PT	P	OCMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
2.500	.000	5.00000	1487.41808	86.98371	654.65117	-1.46526	-1.15222	-1.01136	-1.14709	-1.92711	-82431
2.000	.000	5.00000	1487.53264	86.99042	654.70170	-1.44132	-1.13713	-99213	-1.13107	-91692	-81055
4.000	.000	5.00000	1487.58736	86.99367	654.72614	-1.42813	-1.12638	-97821	-1.12337	-91317	-80355
6.000	.000	5.00000	1487.59563	86.99354	654.72516	-1.39774	-1.10775	-96973	-1.11155	-90336	-80043
8.000	.000	5.00000	1487.60651	86.99529	654.73832	-1.33648	-1.0838	-95597	-1.07889	-86902	-79290
10.000	.000	5.00000	1487.62735	86.99730	654.75346	-1.29736	-1.06953	-94451	-1.05009	-86203	-78726
12.000	.000	5.00000	1487.63515	86.99718	654.75264	-1.26829	-1.05074	-93701	-1.03335	-87915	-78467
14.000	.000	5.00000	1487.64052	86.99771	654.75657	-1.24015	-1.04760	-93074	-1.01769	-87314	-78318
16.000	.000	5.00000	1487.63156	86.99771	654.75658	-1.22355	-1.04378	-93027	-1.01210	-87563	-78746
18.000	.000	5.00000	1487.64584	86.99899	654.76619	-1.20437	-1.04022	-93037	-1.00434	-87832	-79228
20.000	.000	5.00000	1487.66217	86.99542	654.74694	-1.20070	-1.04110	-93097	-1.01157	-88724	-79975
22.000	.000	5.00000	1487.61295	86.99581	654.74379	-1.20265	-1.04630	-93620	-1.02122	-89823	-80974
24.000	.000	5.00000	1487.57964	86.99521	654.73773	-1.20163	-1.05319	-94592	-1.02964	-91074	-82380
GRADIENT			.04233	.00249	.01874	.01103	.00646	.00829	.00593	.00348	.00515

RNL = 1.93 GRADIENT INTERVAL = -5.00V 5.00

MACH	ALPHA	BETA	PT	P	OCMP	DPT042	DPT052	DPT062	DPT044	DPT054	DPT064
3.000	.000	5.00000	1939.46461	51.12882	565.46770	-2.86872	-2.16978	-1.86440	-2.29731	-1.80245	-1.59561
2.000	.000	5.00000	1937.72549	51.07815	564.97363	-2.84705	-2.13938	-1.85695	-2.28558	-1.78287	-1.57045
4.000	.000	5.00000	1938.05081	51.08625	565.06321	-2.78600	-2.12229	-1.83385	-2.24885	-1.77338	-1.55578
6.000	.000	5.00000	1938.52211	51.09901	565.20436	-2.73896	-2.09759	-1.82091	-2.23345	-1.75860	-1.54981
8.000	.000	5.00000	1938.14912	51.09524	565.18261	-2.62184	-2.04957	-1.79489	-2.14931	-1.72943	-1.53232
10.000	.000	5.00000	1938.11229	51.09643	565.17573	-2.53522	-2.03165	-1.77247	-2.09575	-1.72200	-1.52215
12.000	.000	5.00000	1937.93176	51.09222	565.12921	-2.46344	-2.01199	-1.76012	-2.05147	-1.71285	-1.51229
14.000	.000	5.00000	1938.21223	51.10291	565.24744	-2.40203	-1.98580	-1.74495	-2.01694	-1.70077	-1.51209
16.000	.000	5.00000	1938.80711	51.12403	565.48102	-2.37381	-1.96232	-1.74657	-2.00434	-1.70457	-1.51867
18.000	.000	5.00000	1938.64461	51.12433	565.48442	-2.34761	-1.97785	-1.74169	-1.99412	-1.71077	-1.52356
20.000	.000	5.00000	1938.51358	51.11739	565.40661	-2.33308	-1.97775	-1.74169	-2.00087	-1.72668	-1.53241
22.000	.000	5.00000	1938.89377	51.12642	565.50747	-2.34941	-1.98639	-1.75611	-2.02626	-1.74731	-1.55254
24.000	.000	5.00000	1938.09142	51.11131	565.34034	-2.36246	-2.00949	-1.77432	-2.05979	-1.76887	-1.57662
GRADIENT			-.36345	-.00814	-.01012	.02068	.01187	.01268	.01202	.00729	.00846

(FF7CQ7) (02 AUG 76)

PARAMETRIC DATA

BETA	=	5.000	ELEVON	=	.000
AILRON	=	.000	BOFLAP	=	-7.170

STABILIZED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPREF	=	2690.0000	SQ.FT.	YMRP	=	1076.6800	IN. X0
REF	=	474.8000	IN.	YMRP	=	.0000	IN. Y0
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN. Z0
SCALE	=	.0300					

INTERVAL =	1.99	GRADIENT INTERVAL =	-5.00/	5.00
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MACH = 3.500
ALPHA

3.500	BETA	PT	P	OCOMP.	DPTQ42	DPTQ52	DPTQ62	DPTQ44	DPTQ54	DPTQ64
ALPHA										
0.000	5.00000	2683.02945	35.14780	535.72283	-4.99942	-3.67133	-3.14220	-4.01166	-3.08071	-2.68564
2.000	5.00000	2682.79683	35.14482	535.67736	-4.98060	-3.63698	-3.09156	-4.00699	-3.05043	-2.65091
4.000	5.00030	2680.96332	35.12155	535.32265	-4.86948	-3.58239	-3.05825	-3.94394	-3.02768	-2.63437
6.000	5.00000	2682.56059	35.14306	535.69051	-4.73667	-3.53355	-3.03151	-3.86231	-2.99732	-2.61541
8.000	5.00030	2683.60355	35.11761	535.26256	-4.57989	-3.48186	-2.99581	-3.76377	-2.96539	-2.59315
10.000	5.00000	2682.31409	35.13848	535.56065	-4.36267	-3.42729	-2.96253	-3.62637	-2.93937	-2.57605
12.000	5.00000	2680.79922	35.11946	535.29087	-4.23925	-3.39616	-2.92593	-3.55264	-2.92276	-2.55578
14.000	5.00000	2681.94269	35.13391	535.51109	-4.14974	-3.36433	-2.91112	-3.50157	-2.90813	-2.55231
16.000	5.00000	2680.82974	35.11878	535.28040	-4.07993	-3.33992	-2.89203	-3.47399	-2.90677	-2.55112
18.000	5.00000	2680.17957	35.11156	535.17036	-4.05971	-3.31466	-2.87936	-3.44728	-2.93202	-2.56658
20.000	5.00000	2682.18320	35.13710	535.55972	-4.03885	-3.35668	-2.91082	-3.47681	-2.94505	-2.58632
22.000	5.00000	2680.60205	35.11565	535.23274	-4.07516	-3.39001	-2.91325	-3.52534	-2.98704	-2.62514
24.000	5.00000	2680.41961	35.11479	535.21957	-4.13220	-3.44384	-3.00674	-3.59362	-3.04826	-2.69178
RADIANT	0.00000	-	-0.0656	-1.0005	0.3248	0.0224	0.02098	0.01693	0.01326	0.01359

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7003) (02 AUG 78)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPO42	DPO52	DPO62	DPO44	DPO54	DPO64
1.200	.000	-5.00000	2003.91339	828.82202	1165.56822	.22685	.22714	.22709	.05497	.05503	.05502
	2.000	-5.00000	2009.58676	828.57557	1166.22134	.22025	.22037	.22026	.06782	.06791	.06788
	4.000	-5.00000	2012.39209	829.41618	1167.40450	.21233	.21222	.21239	.07699	.07694	.07700
	6.000	-5.00000	2007.30058	828.01813	1165.43674	.20839	.20830	.20830	.08121	.08119	.08117
	8.000	-5.00000	2005.18105	827.76498	1165.08044	.19786	.19805	.19806	.08528	.08534	.08534
	10.000	-5.00000	1999.63934	826.38300	1163.13528	.18730	.18784	.18802	.09001	.08998	.08991
	12.000	-5.00000	2001.45516	826.74883	1163.65021	.16938	.17009	.17030	.01005	.01009	.01010
	14.000	-5.00000	2001.38822	826.64798	1163.50826	.14980	.15061	.15041	.00520	.00522	.00522
	16.000	-5.00000	1993.43224	826.30900	1163.03114	.13221	.13303	.13265	-.01614	-.01623	-.01620
	18.000	-5.00000	2003.10529	827.20448	1164.29153	.11055	.11122	.11105	-.02374	-.02387	-.02384
	20.000	-5.00000	2000.66002	826.62385	1163.47430	.08940	.08993	.08980	-.03159	-.03171	-.03164
	22.000	-5.00000	1936.12405	825.65847	1162.11552	.07196	.07223	.07209	-.04092	-.04099	-.04097
	24.000	-5.00000	1955.54181	825.41649	1161.77493	.05203	.05213	.05197	-.00550	-.00548	-.00549
	GRADIENT	.00000	.86967	.14854	.20908	-.00363	-.00373	-.00368			

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPO42	DPO52	DPO62	DPO44	DPO54	DPO64
1.550	.000	-5.00000	1578.31139	400.01855	1042.32884	.23238	.22936	.22635	.00538	.00533	.00527
	2.000	-5.00000	1578.99117	400.18729	1042.76894	.22427	.22145	.21851	.00845	.00838	.00827
	4.000	-5.00000	1577.32025	399.78399	1041.71767	.21913	.21650	.21375	.01105	.01094	.01083
	6.000	-5.00000	1577.34309	399.79176	1041.73790	.21026	.20769	.20479	.01145	.01133	.01120
	8.000	-5.00000	1578.35884	400.03287	1042.36615	.20561	.20198	.19891	.01384	.01373	.01356
	10.000	-5.00000	1575.77289	399.39394	1040.70128	.19981	.19530	.19215	.01646	.01614	.01582
	12.000	-5.00000	1575.64394	399.36981	1040.63941	.19622	.19320	.19103	.01538	.01524	.01509
	14.000	-5.00000	1575.95380	399.44687	1040.83922	.17306	.17075	.16864	.01560	.01542	.01525
	16.000	-5.00000	1575.97449	399.45256	1040.85405	.16643	.16247	.16012	.01200	.01181	.01166
	18.000	-5.00000	1576.27603	399.52647	1041.04663	.15512	.15218	.15013	.00731	.00719	.00710
	20.000	-5.00000	1575.81870	399.41241	1040.74942	.14243	.13952	.13752	-.00179	-.00176	-.00174
	22.000	-5.00000	1575.80544	399.41526	1040.75685	.13413	.13116	.12915	-.01291	-.01266	-.01249
	24.000	-5.00000	1576.42549	399.57412	1041.17078	.12539	.12260	.12081	-.01919	-.01881	-.01857
	GRADIENT	.00000	-.24779	-.05863	-.15279	-.00331	-.00322	-.00315	.00142	.00140	.00139

(FE7003) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-894)
ARC 11-97-87-094 OA161 ORBITER + RAKES.

PARAMETRIC DATA
BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RV/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP042	DP062	DP044	DP054	DP064
1.750	.000	-5.00000	1643.42418	309.79275	1066.72121	.27177	.25492	.02812	.02741	.02669
2.000	.000	-5.00000	1650.93587	310.08348	1067.72229	.26363	.24846	.03108	.03032	.02961
4.000	.000	-5.00000	1650.24094	309.94633	1067.25003	.25908	.24434	.03396	.03320	.03248
6.000	.000	-5.00000	1649.94432	309.89394	1067.06963	.25338	.24000	.03470	.03396	.03318
8.000	.000	-5.00000	1650.82304	310.06269	1067.65071	.25094	.23479	.03788	.03669	.03584
10.000	.000	-5.00000	1650.44762	309.98747	1067.39171	.24440	.22876	.03665	.03736	.03655
12.000	.000	-5.00000	1651.41377	310.17471	1068.03642	.23112	.21970	.03443	.03458	.03384
14.000	.000	-5.00000	1651.02856	310.09678	1067.76807	.21842	.20798	.03114	.03049	.02987
16.000	.000	-5.00000	1650.14075	309.92978	1067.19304	.21465	.20269	.02957	.02873	.02816
18.000	.000	-5.00000	1650.84254	310.06318	1067.65240	.20676	.19490	.02409	.02338	.02290
20.000	.000	-5.00000	1651.38724	310.16493	1068.00276	.19666	.18597	.01743	.01680	.01635
22.000	.000	-5.00000	1651.57825	310.20011	1068.12389	.18448	.17392	.01357	.01317	.01290
24.000	.000	-5.00000	1651.58163	310.20077	1068.12617	.17335	.16391	.00655	.00648	.00634
GRADIENT		.00000	.20419	.03840	.13221	-.00317	-.00293	.00134	.00131	.00130

MACH	ALPHA	BETA	PT	P	OCOMP	DP042	DP062	DP044	DP054	DP064
2.000	.000	-5.00000	1647.06216	235.97826	1095.04305	.25939	.23206	.02626	.02498	.02392
4.000	.000	-5.00000	1648.00623	236.10478	1095.63014	.25505	.22961	.03067	.02926	.02811
6.000	.000	-5.00000	1647.42177	236.02850	1095.27618	.24891	.22472	.03452	.03186	.03066
8.000	.000	-5.00000	1646.95721	235.96757	1094.97044	.24342	.21950	.03482	.03327	.03211
10.000	.000	-5.00000	1646.48546	235.89915	1094.67596	.23635	.21381	.03615	.03444	.03322
12.000	.000	-5.00000	1646.51515	235.90250	1094.69148	.23131	.20392	.03746	.03562	.03445
14.000	.000	-5.00000	1646.62762	235.91658	1094.75682	.22249	.20392	.03346	.03206	.03106
16.000	.000	-5.00000	1646.05921	235.83774	1094.39096	.20511	.19875	.02965	.02865	.02766
18.000	.000	-5.00000	1646.35066	235.87904	1094.59261	.19953	.18889	.02557	.02441	.02372
20.000	.000	-5.00000	1646.96518	235.94551	1094.89108	.18801	.17632	.02289	.02190	.02124
22.000	.000	-5.00000	1647.29576	235.98832	1095.03203	.18321	.16812	.02266	.02168	.02103
24.000	.000	-5.00000	1646.00110	235.83439	1094.37541	.16523	.15238	.01446	.01388	.01347
GRADIENT		.00000	.08990	.01256	.05829	-.00262	-.00193	.00180	.00172	.00167

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OF POOR QUALITY

REFERENCE DATA

=	2690.0000	SO.FT.	=	1076.6800	IN.	XQ
SPREF	=	474.8000	IN.	YMP	=	.0000
REF	=	936.6800	IN.	ZMP	=	375.0000
SEF	=					IN.
SCALE	=		.0300			ZO

ENVI	=	3.03	GRADIENT	INTERVAL	=	-5.06	5.00
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MACH = 2.250
ALPHA

DP062	DP044	DP054
.02618	.02618	.02684
.02048	.02874	.02508
.02042	.03056	.02684
.19897	.03076	.02728
.19431	.03031	.02785
.19057	.02915	.02607
.18496	.02852	.02571
.18057	.02870	.
.17531	.02743	.
.17214	.02531	.
.16500	.02224	.02015
.16077	.02571	.02321
.02788	.00487	.00440
.02136	-.00187	-.00440
.00768	.00109	.00106

BN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500
ALPHA

DP062	DP044	DP054	DP054
.19024	.02189	.01579	.01838
.18834	.02429	.02195	.02033
.18563	.02570	.02329	.02166
.18171	.02651	.02414	.02250
.17827	.02584	.02366	.02221
.17265	.02413	.02222	.02092
.17580	.02272	.02517	.02377
.17123	.02493	.02505	.02185
.16715	.02328	.02163	.02048
.16125	.02163	.02009	.01904
.15530	.01780	.01653	.01570
.14984	.01636	.01520	.01441
.14820	.01518	.01413	.01338
.00114	.00095	.00088	.00082

(FETD003) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-894)
ARC 11-97-87-894 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0800 IN. Z0
SCALE = .0300

RNAL = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	QCOMP	DPO42	DPO52	DPO62	DPO44	DPO54	DPO64
.000	.000	-5.00000	1935.56335	51.10074	565.28348	.26423	.21869	.19131	.02843	.02431	.02170
2.000	2.000	-5.00000	1935.15036	51.08178	565.12433	.25937	.21535	.18800	.02849	.02441	.02174
4.000	4.000	-5.00000	1936.07675	51.11387	565.35983	.25216	.21035	.18525	.03128	.02689	.02411
6.000	6.000	-5.00000	1936.50783	51.12482	565.48977	.23951	.20176	.17868	.02722	.02357	.02123
8.000	8.000	-5.00000	1936.47981	51.12367	565.47601	.22810	.19486	.17470	.02580	.02258	.02055
10.000	10.000	-5.00000	1936.30977	51.12127	565.45055	.21802	.18792	.16981	.02565	.02260	.02070
12.000	12.000	-5.00000	1935.00462	51.11145	565.34191	.21113	.18322	.16617	.02529	.02240	.02059
14.000	14.000	-5.00000	1935.75789	51.09733	565.18374	.20816	.18177	.16517	.02517	.02235	.02139
16.000	16.000	-5.00000	1935.34929	51.08156	565.01133	.20138	.17675	.16109	.02570	.02299	.02188
18.000	18.000	-5.00000	1935.29300	51.07934	564.98677	.19196	.16865	.15439	.02414	.02161	.01999
20.000	20.000	-5.00000	1934.35158	51.05967	564.76923	.19066	.16779	.15353	.02241	.02012	.01861
22.000	22.000	-5.00000	1934.81860	51.07553	564.94459	.18559	.16395	.15007	.02241	.02012	.01861
24.000	24.000	-5.00000	1934.05580	51.04761	564.63582	.18838	.16196	.14828	.01989	.01722	.01593
GRADIENT		.00000	.12834	.00308	.03410	-.00302	-.00219	-.00151	.00071	.00064	.00060

RNAL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500	ALPHA	BETA	PT	P	QCOMP	DPO42	DPO52	DPO62	DPO44	DPO54	DPO64
.000	.000	-5.00000	2547.37308	33.36888	508.60840	.31648	.24831	.20921	.04339	.03556	.03079
2.000	2.000	-5.00000	2547.81790	33.37489	508.70000	.24414	.24831	.20921	.04487	.03678	.03186
4.000	4.000	-5.00000	2546.94196	33.36394	508.53317	.23487	.23487	.19941	.04318	.03551	.03090
6.000	6.000	-5.00000	2547.50006	33.37128	508.64510	.28932	.23073	.19821	.04543	.03767	.03310
8.000	8.000	-5.00000	2547.17203	33.36708	508.58098	.26715	.21756	.18565	.04038	.03401	.03023
10.000	10.000	-5.00000	2551.36157	33.42099	509.40276	.25887	.21203	.18565	.04127	.03511	.03131
12.000	12.000	-5.00000	2555.54724	33.47640	510.24735	.24554	.20509	.18072	.03853	.03309	.02956
14.000	14.000	-5.00000	2558.82321	33.51909	510.89791	.23698	.19950	.17673	.04035	.03484	.03136
16.000	16.000	-5.00000	2563.66443	33.58292	511.87092	.23023	.19403	.17243	.04184	.03613	.03259
18.000	18.000	-5.00000	2567.71115	33.63562	512.67409	.22472	.19032	.16957	.04277	.03705	.03349
20.000	20.000	-5.00000	2572.38071	33.69739	513.61582	.21482	.18298	.16347	.04372	.03792	.03422
22.000	22.000	-5.00000	2578.11011	33.77192	514.75153	.18511	.18511	.16383	.04046	.03522	.03198
24.000	24.000	-5.00000	2578.93777	33.78332	514.92529	.17936	.17936	.16061	.03253	.02849	.02586
GRADIENT		.00000	-.10779	-.00123	-.01880	-.00461	-.00335	-.00245	-.00003	-.00001	-.00003

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7004) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -2.0000 ELEVON = .000
ALFON = .000 BOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	RT	P	OCOMP	DP042	DP062	DP044	DP054	DP064
1.550	.000	-2.00000	1574.43616	398.83038	1039.23260	.31647	.31177	.03112	.03075	.03039
2.000	4.000	-2.00000	1573.92516	398.70513	1038.90645	.30819	.30382	.03488	.03449	.03409
4.000	6.000	-2.00000	1573.05887	398.48754	1038.33949	.30127	.29692	.03910	.03863	.03829
6.000	8.000	-2.00000	1573.57761	398.62070	1038.68646	.29188	.28714	.04128	.04083	.04043
8.000	10.000	-2.00000	1574.31830	399.81203	1039.18500	.28131	.28170	.04167	.04136	.04096
10.000	12.000	-2.00000	1574.64356	398.88485	1039.37476	.27872	.27383	.04445	.04381	.04328
12.000	14.000	-2.00000	1574.84332	398.93706	1039.51079	.26607	.26151	.04670	.04604	.04545
14.000	16.000	-2.00000	1574.59084	398.87534	1039.34988	.25913	.25702	.04512	.04480	.04437
16.000	18.000	-2.00000	1575.31898	399.06065	1039.83284	.23646	.23382	.04404	.04353	.04325
18.000	20.000	-2.00000	1575.34929	399.06569	1039.84996	.22473	.22120	.04052	.03998	.03956
20.000	22.000	-2.00000	1574.16409	398.76549	1039.06374	.21262	.20868	.03273	.03221	.03182
22.000	24.000	-2.00000	1574.15891	398.76766	1039.06938	.20221	.19736	.02734	.02685	.02651
GRADIENT		.00000	-34433	-08569	-22328	-00380	-00371	.00200	.02062	.02638

RN/L = 3.04 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	RT	P	OCOMP	DP042	DP062	DP044	DP054	DP064
1.750	.000	-2.00000	1550.94153	310.07685	1067.69946	.34177	.33662	.05978	.05823	.05684
2.000	4.000	-2.00000	1552.84775	310.44413	1068.96416	.33378	.32303	.05300	.05137	.05097
4.000	6.000	-2.00000	1553.89585	310.63168	1069.60992	.33041	.32067	.06329	.06179	.06039
6.000	8.000	-2.00000	1554.38229	310.72412	1069.92824	.32423	.31534	.06357	.06216	.06080
8.000	10.000	-2.00000	1553.79941	310.62024	1069.57295	.31802	.30961	.06524	.06384	.06233
10.000	12.000	-2.00000	1554.31114	310.72391	1069.92749	.31336	.30215	.06571	.06427	.06277
12.000	14.000	-2.00000	1555.30227	310.90954	1070.56715	.30024	.28809	.06803	.06593	.06454
14.000	16.000	-2.00000	1555.65390	310.97399	1070.78859	.28508	.27885	.06302	.06191	.06083
16.000	18.000	-2.00000	1554.93456	310.83946	1070.32539	.27553	.26980	.06600	.05896	.05797
18.000	20.000	-2.00000	1555.58514	310.96767	1070.76688	.25842	.25116	.05800	.05748	.05648
20.000	22.000	-2.00000	1557.05319	311.24283	1071.71434	.25572	.24727	.05765	.05603	.05501
22.000	24.000	-2.00000	1557.68335	311.35872	1072.11337	.23948	.23215	.05514	.05370	.05256
GRADIENT		.00000	.73508	.13871	.47761	.23104	.22433	.05186	.05057	.04958

(1F7504) (02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-894)
ARC 11-97-87-894 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 50.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	QCOMP	DP052	DP062	DP044	DP054	DP064
2.000	-2.00000	1845.93443	235.90358	1094.69649	.30527	.29009	.05542	.05274	.05064
2.000	-2.00000	1846.41615	235.83478	1094.37723	.29918	.28518	.05801	.05518	.05306
4.000	-2.00000	1846.47842	235.84348	1094.41763	.29181	.27788	.06138	.05868	.05627
6.000	-2.00000	1847.01898	235.91540	1094.75133	.28471	.27262	.06203	.05918	.05710
8.000	-2.00000	1846.99838	235.91268	1094.73875	.27678	.26595	.06269	.05999	.05802
10.000	-2.00000	1846.95099	235.91120	1094.73169	.26833	.25865	.06395	.06026	.05749
12.000	-2.00000	1846.64996	235.86971	1094.53934	.26328	.25296	.06230	.05938	.05749
14.000	-2.00000	1846.59160	235.85966	1094.49269	.26242	.25186	.06273	.05963	.05749
16.000	-2.00000	1847.17949	235.94132	1094.87161	.24401	.23598	.05569	.05363	.05261
18.000	-2.00000	1846.84877	235.89649	1094.66362	.23620	.22905	.05630	.05406	.05265
20.000	-2.00000	1846.91461	235.88847	1094.62637	.22833	.22114	.05478	.05251	.05108
22.000	-2.00000	1847.35541	235.95347	1094.95123	.22070	.21342	.05551	.05330	.05177
24.000	-2.00000	1846.02296	235.78710	1094.15599	.20427	.19802	.05179	.04975	.04842
GRADIENT	.00000	-.11399	-.01502	-.06971	-.00336	-.00385	.00149	.00146	.00141

RN/L = 3.03 GRADIENT INTERVAL = -5.08/ 5.00

MACH	BETA	PT	P	QCOMP	DP052	DP062	DP044	DP054	DP064
2.250	-2.00000	2060.32037	178.19294	1069.48225	.24099	.22593	.04319	.03979	.03769
4.000	-2.00000	2059.98489	178.16426	1069.31013	.23553	.22155	.04504	.04150	.03986
6.000	-2.00000	2059.56003	178.12785	1069.09161	.23406	.21988	.04598	.04265	.04032
8.000	-2.00000	2060.01712	178.16692	1069.32610	.23260	.21882	.04561	.04241	.04026
10.000	-2.00000	2060.34888	178.19534	1069.49657	.22861	.21638	.04667	.04345	.04146
12.000	-2.00000	2060.24548	178.18648	1069.44347	.22865	.21083	.04595	.04315	.04118
14.000	-2.00000	2060.24661	178.18653	1069.44377	.22123	.21035	.04677	.04409	.04223
16.000	-2.00000	2060.47552	178.20613	1069.56143	.21120	.20206	.04661	.04411	.04241
18.000	-2.00000	2060.55393	178.21377	1069.60732	.21116	.20206	.04714	.04468	.04300
20.000	-2.00000	2060.33616	178.16844	1069.33524	.20662	.19438	.04486	.04243	.04091
22.000	-2.00000	2060.44046	178.20315	1069.54353	.20052	.19241	.04989	.04714	.04547
24.000	-2.00000	2060.15353	178.17854	1069.39586	.18937	.17693	.03186	.03017	.02909
GRADIENT	.00000	-.19609	-.01627	-.09767	-.00173	-.00171	.00071	.00071	.00066

ORIGINAL PAGE IS
OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-984)
ARC 11-97-87-984 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SO.FT. YMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
ALPHA										
.000	-2.00000	1497.77222	87.59769	659.27209	29690	25959	23793	04652	04169	03977
2.000	-2.00000	1497.76450	87.59732	659.26928	29809	25972	23875	05132	04583	04272
4.000	-2.00000	1497.76714	87.59741	659.27001	29889	25465	23342	05289	04695	04303
6.000	-2.00000	1497.74226	87.59619	659.26081	27979	24782	22854	05181	04684	04375
8.000	-2.00000	1497.75372	87.59682	659.26577	26930	24106	22369	05004	04562	04287
10.000	-2.00000	1497.67010	87.59167	659.22676	26628	24045	22374	05046	04967	04616
12.000	-2.00000	1498.01534	87.61195	659.37941	25378	23006	21541	04942	04549	04301
14.000	-2.00000	1494.60995	87.41497	657.89633	24671	22504	21161	04514	04514	04282
16.000	-2.00000	1494.60995	87.41100	657.86705	24303	22257	21001	05135	04767	04533
18.000	-2.00000	1495.08078	87.43912	658.07367	23521	21630	20443	05038	04680	04457
20.000	-2.00000	1494.25999	87.38984	657.70778	22809	21037	19926	04992	04657	04443
22.000	-2.00000	1494.70457	87.41660	657.90915	22113	20477	19381	05801	04679	04460
24.000	-2.00000	1494.94550	87.43099	658.01747	20985	19441	18354	04569	04289	04078
GRADIENT	.00000	-.00127	-.00007	-.00052	-.00202	-.00124	-.00113	00139	00131	00122

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	BETA	PT	P	OCOMP	DP042	DP062	DP044	DP064	DP064
ALPHA									
.000	-2.00000	1942.79845	51.29598	567.38360	30895	25217	05188	04393	03940
2.000	-2.00000	1939.95528	51.28303	566.57606	28376	21832	05098	04320	03876
4.000	-2.00000	1937.25540	51.15163	565.79629	30070	24725	06539	04712	04245
6.000	-2.00000	1932.01018	51.02006	564.33104	28621	23762	05008	04292	03894
8.000	-2.00000	1931.79623	51.01216	564.24371	27513	23272	05352	04652	04246
10.000	-2.00000	1932.19310	51.02143	564.34621	26396	22524	05138	04502	04122
12.000	-2.00000	1932.51784	51.02796	564.41837	25945	22077	05245	04631	04257
14.000	-2.00000	1931.30788	50.98654	563.96030	24444	21317	04911	04371	04034
16.000	-2.00000	1932.10713	51.00535	563.17945	23511	18934	04866	04348	04038
18.000	-2.00000	1931.43526	50.99056	564.00479	22845	18616	04809	04501	04194
20.000	-2.00000	1931.85768	50.99784	564.08523	21973	18030	04747	04277	03992
22.000	-2.00000	1932.01346	51.00587	564.17412	21770	17959	04923	04455	04160
24.000	-2.00000	1931.72012	50.99929	564.10132	21338	17630	04824	04383	04082
GRADIENT	.00000	-1.38574	-.03509	-.39918	-.00206	-.00123	00088	00089	00076

(FETD04) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -2.000 ELEWON = .000
ALIRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8300 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RM/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
3.500	.000	-2.00000	2692.07135	34.16512	520.74471	.33684	.25752	.21851	.06178	.04964	.04322
2.000	.000	-2.00000	2609.47937	34.18432	521.03742	.32972	.25352	.21461	.06116	.04932	.04285
4.000	.000	-2.00000	2610.52899	34.19799	521.24570	.32208	.25005	.21357	.06416	.05289	.04934
6.000	.000	-2.00000	2614.11072	34.24500	521.96236	.30662	.24189	.20869	.05985	.04917	.04335
8.000	.000	-2.00000	2614.27722	34.24722	521.99506	.28872	.23329	.20316	.05872	.04915	.04363
10.000	.000	-2.00000	2619.19357	34.31230	522.98803	.27514	.22497	.19731	.05674	.04789	.04276
12.000	.000	-2.00000	2615.71823	34.26563	522.27669	.26306	.21824	.19272	.05450	.04809	.04246
14.000	.000	-2.00000	2617.68397	34.29432	522.71407	.25184	.21134	.18842	.05104	.04633	.04152
16.000	.000	-2.00000	2615.79174	34.26626	522.28640	.24681	.20840	.18746	.05033	.04510	.04073
18.000	.000	-2.00000	2617.10403	34.28431	522.56139	.23901	.20375	.18483	.05034	.04518	.04057
20.000	.000	-2.00000	2615.61575	34.26406	522.25275	.23045	.19762	.17894	.05083	.04545	.04022
22.000	.000	-2.00000	2619.49899	34.31592	523.04321	.22949	.19772	.17901	.05743	.05052	.04601
24.000	.000	-2.00000	2624.04555	34.37497	523.94328	.22589	.19571	.17592	.05728	.05052	.04601
GRADIENT		.00300	.61442	.00822	.12524	-.00359	-.00187	-.00126	.00060	.00061	.00058

(FF7005) (02 AUG 75)

ASC 11-90-97-094 DA161 ORBITER + RAKES

PARAMETRIC DATA

BETA	=	.000	ELEVON	=	.000
ALLIRON	=	.000	BOFLAP	=	-7.170

REFERENCE DATA.

SPRF	=	2690	0000	SO.FT.		YMRP	=	1076.6800	IN.	X0
REF	=	474	8000	IN.		YMRP	=	.0000	IN.	Y0
SPRF	=	936	6900	IN.		ZMRP	=	375.0000	IN.	Z0
SCALE	=		.0300							

BN/L =	4.23	GRADIENT INTERVAL =	-5.00/	5.00
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MACH	ALPHA	BETA	PT	P	QCOMP	DPQ4-2	DPQ5-2	DPQ6-2	DPQ4-4	DPQ5-4	DPQ6-4
.600											
1.000		.00000	2636.13434	2067.16983	568.96451	.05351	-.05339	.05345	-.13519	-.13493	-.13508
2.000		.00000	2636.42682	2067.42636	569.02750	.06054	.06061	.06060	-.12185	-.12197	-.12196
3.000		.00000	2638.36844	2068.64036	569.52808	.05385	.05386	.05394	-.12532	-.12562	-.12568
4.000		.00000	2638.36844	2068.64036	568.73059	.05845	.05850	.05850	-.11027	-.11034	-.11046
5.000		.00000	2635.63572	2067.04514	568.96142	.04625	.04625	.04623	-.11474	-.11485	-.11472
6.000		.00000	2636.20016	2067.24875	568.96142	.04638	.04638	.04638	-.11016	-.11016	-.11028
7.000		.00000	2635.93494	2067.10458	568.83035	.03389	.03389	.03385	-.11434	-.11434	-.11434
8.000		.00000	2635.93494	2067.10458	568.67661	.01682	.01679	.01684	-.11404	-.11404	-.11404
10.000		.00000	2635.46613	2066.78952	568.91891	-.00841	-.00841	-.00841	-.12248	-.12248	-.12259
12.000		.00000	2635.11768	2067.19876	568.91891	-.04178	-.04178	-.04178	-.13112	-.13112	-.13133
14.000		.00000	2635.11768	2067.19876	568.91891	-.07871	-.07871	-.07869	-.14550	-.14550	-.14569
16.000		.00000	2635.08533	2068.99408	569.61655	-.10689	-.10677	-.10682	-.15824	-.15824	-.15792
18.000		.00000	2634.47391	2066.12332	568.36959	-.13937	-.13937	-.13935	-.17304	-.17304	-.17353
20.000		.00000	2634.47391	2062.55417	567.55264	-.18158	-.18158	-.18158	-.19714	-.19714	-.19476
22.000		.00000	2634.10891	2061.72954	567.94377	-.00247	-.00247	-.00247	-.00247	-.00247	-.00235
24.000		.00000	2634.10891	2061.72954	567.94377	-.00247	-.00247	-.00247	-.00247	-.00247	-.00235

DATE	4 23	GRADIENT INTERVAL	-5.00/	5.00
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[illegible]

(FE7005) (02 AUG 76)

PARAMETRIC DATA

BETA	=	.000	ELEVON	=	.000
AILRON	=	.000	BOFLAP	=	-7.170

RN/I = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

BNVL = 4.25 GRADIENT INTERVAL = -5.00; 5.00

MACH	=	1.400	ALPHA	BETA	PI	P	QCOMP	DP042	DP052	DP064	DP065	DP066
		.000	.0000	2043.25790	642.23148	1318.08347	38272	38944	38459	.07153	.07107	.07039
		2.000	.0000	2048.25300	643.57806	1318.84294	38885	39111	37703	.07503	.07477	.07414
		4.000	.0000	2046.36710	643.02779	1317.71530	37222	37222	36835	.08059	.08059	.07993
		6.000	.0000	2036.68442	640.55650	1312.67154	36468	36312	35887	.08479	.08479	.08373
		8.000	.0000	2036.48167	640.58681	1312.71315	34725	34825	34234	.08394	.08394	.08289
		10.000	.0000	2037.06380	640.77697	1313.10236	32951	32762	32452	.08110	.08110	.08011
		12.000	.0000	2032.87712	639.62427	1310.74059	31557	31455	31205	.07822	.07822	.07751
		14.000	.0000	2034.53186	640.07636	1311.66574	29771	29757	29486	.07671	.07671	.07610
		16.000	.0000	2036.71129	641.14881	1313.88434	28350	28180	27909	.07589	.07589	.07469
		18.000	.0000	2034.86371	640.10445	1311.72459	27415	27145	26814	.07374	.07374	.07260
		20.000	.0000	2029.92376	638.64844	1308.74098	25819	25573	25368	.06935	.06935	.06832
		22.000	.0000	2029.79141	638.90320	1309.26305	23649	23376	23203	.06914	.06914	.06820
		24.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		26.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		28.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		30.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		32.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		34.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		36.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		38.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		40.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		42.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		44.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		46.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		48.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		50.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		52.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		54.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		56.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		58.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		60.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		62.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		64.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		66.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		68.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		70.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		72.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		74.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		76.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		78.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		80.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		82.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		84.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		86.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		88.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		90.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		92.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		94.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		96.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		98.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749
		100.000	.0000	2028.09565	639.46732	1308.33964	22507	22332	22073	.06811	.06811	.06749

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OF POOR QUALITY

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1075.6880 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA =
 AIRRON =

.000 ELEVON = .000
 .000 EDFLAP = -7.178

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
1.750	.000	.00000	1580.54595	401.10618	1045.16287	.38997	.36400	.36925	.05457	.05389	.05322
2.000	.000	.00000	1581.96228	401.46987	1046.11082	.38250	.35683	.35220	.05790	.05720	.05652
4.000	.000	.00000	1581.60306	401.36876	1045.84959	.34428	.34932	.34476	.05266	.05198	.05134
6.000	.000	.00000	1581.71895	401.39628	1045.91879	.34388	.34939	.34430	.05435	.05367	.05307
8.000	.000	.00000	1582.28792	401.54744	1046.31257	.33159	.32756	.32367	.05532	.05458	.05377
10.000	.000	.00000	1584.01578	401.86475	1047.40035	.32008	.31732	.31351	.05522	.05476	.05412
12.000	.000	.00000	1584.74577	402.14309	1047.86478	.31476	.30986	.30555	.05533	.05485	.05439
14.000	.000	.00000	1584.30254	402.03269	1047.57710	.30191	.29688	.29331	.05940	.05897	.05852
16.000	.000	.00000	1584.53708	402.09357	1047.73572	.28819	.28303	.27880	.05519	.05465	.05415
18.000	.000	.00000	1585.24020	402.26379	1048.17926	.27873	.27352	.26931	.05673	.05611	.05555
20.000	.000	.00000	1585.26917	402.27295	1048.20312	.26894	.26371	.25948	.05229	.05173	.05119
22.000	.000	.00000	1584.67165	402.12355	1047.81384	.25674	.25177	.24691	.05489	.05420	.05373
24.000	.000	.00000	1584.25276	402.01530	1047.53178	.23972	.23376	.22891	.00202	.00202	.00203
GRADIENT			.26428	.06590	.17171	-.00392	-.00367	-.00389			

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
1.750	.000	.00000	1657.74608	311.37225	1072.15997	.38022	.37563	.36494	.08222	.08212	.08204
2.000	.000	.00000	1657.99976	311.41864	1072.31970	.37596	.35334	.35359	.08513	.08266	.08109
4.000	.000	.00000	1657.20947	311.27179	1071.81404	.37020	.35882	.34937	.08584	.08471	.08292
6.000	.000	.00000	1656.47336	311.13422	1071.34035	.36573	.35507	.34684	.08759	.08555	.08393
8.000	.000	.00000	1657.27676	311.28436	1071.65733	.35623	.34611	.33840	.08863	.08660	.08504
10.000	.000	.00000	1657.32759	311.29292	1071.88681	.34704	.33889	.33142	.09095	.08922	.08761
12.000	.000	.00000	1656.50383	311.14008	1071.36153	.33471	.32429	.31647	.09357	.09127	.08945
14.000	.000	.00000	1657.07622	311.24621	1071.72598	.32381	.31593	.30863	.09355	.09176	.08930
16.000	.000	.00000	1656.60485	311.15869	1071.42461	.31352	.30837	.29874	.08951	.08741	.08543
18.000	.000	.00000	1656.32849	311.10677	1071.24582	.30077	.29423	.28574	.08944	.08732	.08539
20.000	.000	.00000	1656.80373	311.19482	1071.54903	.28483	.27697	.27156	.08922	.08771	.08571
22.000	.000	.00000	1657.27647	311.28266	1071.85149	.27790	.26955	.26423	.08940	.08792	.08595
24.000	.000	.00000	1657.16254	311.26139	1071.77823	.26853	.26091	.25559	.08140	.07942	.07705
GRADIENT			-.13413	-.02512	-.08649	-.00450	-.00420	-.00389	.00116	.00115	.00115

TABULATED DATA - 0A161 (ARC 11-97-87-09M)

ARC 11-97-87-09+ 0A161 ORBITER + RAKES

(IFETD05) (02 AUG 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPO42	DPO52	DPO44	DPO54	DPO54
2.000	.000	.0000	1847.14075	235.84824	1094.43971	.35972	.33794	.07908	.07524	.07237
2.000	2.000	.0000	1846.77534	235.80064	1094.21881	.35288	.33137	.07994	.07600	.07320
4.000	4.000	.0000	1847.06482	235.83535	1094.37987	.34322	.32352	.08135	.07755	.07455
6.000	6.000	.0000	1846.70287	235.79072	1094.17278	.33520	.31533	.08157	.07781	.07511
8.000	8.000	.0000	1846.84723	235.80916	1094.25836	.32899	.30322	.08150	.07759	.07539
10.000	10.000	.0000	1847.73077	235.93651	1094.84930	.31655	.29922	.08178	.07651	.07609
12.000	12.000	.0000	1847.06197	235.84271	1094.41403	.31063	.29007	.08281	.07935	.07703
14.000	14.000	.0000	1846.76268	235.79962	1094.21409	.29772	.28475	.08334	.07717	.07435
16.000	16.000	.0000	1846.78920	235.81072	1094.26558	.28908	.27419	.07848	.07612	.07414
18.000	18.000	.0000	1846.62433	235.78563	1094.14917	.28014	.26177	.07693	.07445	.07254
20.000	20.000	.0000	1846.66009	235.81953	1094.30649	.27144	.25138	.07749	.07480	.07285
22.000	22.000	.0000	1846.62697	235.81627	1094.29134	.26305	.24349	.07784	.07488	.07285
24.000	24.000	.0000	1845.84973	235.68645	1093.68892	.25043	.23204	.07591	.07295	.07125
GRADIENT		.0000	-0.01898	-0.00322	-0.01495	-0.00413	-0.00351	.00057	.00052	.00055

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DPO42	DPO52	DPO44	DPO54	DPO54
2.250	.000	.0000	2059.62274	178.13523	1069.13588	.32785	.29613	.06791	.06252	.05936
2.000	2.000	.0000	2059.69022	178.14101	1069.17059	.32372	.29232	.07004	.06444	.06108
4.000	4.000	.0000	2059.24142	178.10249	1069.93941	.31666	.28879	.07009	.06500	.06149
6.000	6.000	.0000	2059.67896	178.13995	1069.16425	.30993	.28381	.07014	.06523	.06194
8.000	8.000	.0000	2059.63947	178.13654	1069.14375	.30315	.27811	.07224	.06725	.06420
10.000	10.000	.0000	2059.11798	178.09175	1068.87497	.29411	.27179	.07178	.06721	.06433
12.000	12.000	.0000	2059.74341	178.05964	1068.58224	.28791	.26761	.07050	.06632	.06359
14.000	14.000	.0000	2059.55293	178.12881	1069.09737	.27953	.26173	.06984	.06628	.06355
16.000	16.000	.0000	2059.35752	178.11519	1069.00757	.27053	.25462	.07106	.06750	.06416
18.000	18.000	.0000	2059.83990	178.06728	1068.73170	.25969	.23517	.07007	.06663	.06337
20.000	20.000	.0000	2059.20343	178.09903	1068.91862	.25786	.23265	.07525	.07148	.06831
22.000	22.000	.0000	2059.94349	178.07670	1068.78462	.23218	.20965	.05934	.05542	.05345
24.000	24.000	.0000	2058.85312	178.06898	1068.73825	.21878	.20866	.05933	.05593	.05345
GRADIENT		.0000	-0.09532	-0.00818	-0.04911	-0.00280	-0.00164	.00055	.00052	.00053

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7005) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AILRON =

ELEVON = .000
BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	QCOMP	DPOW2	DPOB2	DPOW4	DPOB4	DPOB4
	.000	.00000	1495.02940	87.42978	658.00636	.3212	.28932	.07011	.06267	.05846
	2.000	.00000	1495.07198	87.43218	658.02643	.32900	.28789	.07472	.06257	.05837
	4.000	.00000	1494.55016	87.38912	657.70238	.32424	.28528	.07341	.06210	.05815
	6.000	.00000	1494.94664	87.42504	657.97271	.31584	.27836	.07374	.05944	.05205
	8.000	.00000	1495.11034	87.43490	658.04689	.30714	.27298	.07278	.05601	.05202
	10.000	.00000	1494.33299	87.39847	657.69749	.29976	.26923	.07338	.05710	.05315
	12.000	.00000	1494.99853	87.42791	657.99431	.27721	.25996	.07281	.05685	.05328
	14.000	.00000	1494.32796	87.39815	657.69506	.27137	.25280	.07167	.05630	.05312
	16.000	.00000	1494.89258	87.42212	657.95069	.24923	.23658	.07182	.05682	.05390
	18.000	.00000	1494.35973	87.39025	657.71090	.26236	.23018	.07199	.05721	.05435
	20.000	.00000	1494.85466	87.41999	657.93397	.25495	.22447	.06949	.05515	.05228
	22.000	.00000	1494.36290	87.39047	657.71252	.25115	.22110	.07029	.05601	.05297
	24.000	.00000	1494.88579	87.42173	657.94775	.24083	.21220	.06823	.05416	.05113
GRADIENT		.00000	-.15982	-.01016	-.07650	-.00197	-.00101	.00083	.00086	.00076

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	QCOMP	DPOW2	DPOB2	DPOW4	DPOB4	DPOB4
	.000	.00000	1940.57863	51.17667	566.06326	.3749	.27347	.05960	.05862	.05297
	2.000	.00000	1940.33086	51.16896	565.97688	.33105	.27013	.05840	.05792	.05213
	4.000	.00000	1939.72018	51.14571	565.72091	.32372	.26626	.05882	.05861	.05282
	6.000	.00000	1939.65381	51.15674	565.84290	.31280	.25881	.05817	.05831	.05292
	8.000	.00000	1938.91023	51.13770	565.63232	.30215	.25485	.07003	.05876	.05562
	10.000	.00000	1939.71480	51.15037	565.88296	.29126	.25007	.07007	.06132	.05534
	12.000	.00000	1939.08939	51.14639	565.72841	.27712	.23848	.06822	.05008	.05569
	14.000	.00000	1939.37943	51.15133	565.78307	.26669	.23143	.06502	.05817	.05422
	16.000	.00000	1938.79555	51.13805	565.63618	.25767	.22940	.06547	.05864	.05478
	18.000	.00000	1939.37152	51.15323	565.89401	.25096	.20614	.06749	.05087	.05594
	20.000	.00000	1939.61790	51.16009	565.87995	.24096	.21278	.06447	.05861	.05476
	22.000	.00000	1938.92849	51.13827	565.63956	.24174	.21054	.05959	.05338	.05913
	24.000	.00000	1939.35316	51.15332	565.80522	.22985	.18784	.05140	.05517	.05225
GRADIENT		.00000	-.28561	-.00774	-.08559	-.00344	-.00174	-.00019	-.00000	-.00004

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(FE7D05) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDELAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500	ALPHA	BETA	PT	P	OCOMP	DPO42	DPO52	DPO62	DPO44	DPO54	DPO64
	.000	.00000	2639.31985	34.57549	526.99953	.34908	.26631	.22722	.07624	.06109	.05340
	2.000	.00000	2640.01666	34.58445	527.13617	.34604	.26569	.22555	.07709	.06207	.05408
	4.000	.00000	2640.89996	34.59589	527.31057	.33199	.25752	.22105	.07437	.06039	.05294
	6.000	.00000	2644.64435	34.64481	528.05621	.32334	.25415	.21936	.07495	.06137	.05411
	8.000	.00000	2646.62357	34.67127	528.45953	.30022	.24125	.21150	.07080	.05894	.05262
	10.000	.00000	2646.80231	34.67362	528.49525	.28520	.23328	.20661	.06829	.05746	.05173
	12.000	.00000	2647.36554	34.68086	528.60566	.27740	.22875	.20508	.07140	.06059	.05510
	14.000	.00000	2652.42503	34.74652	529.60644	.26317	.22022	.19824	.06779	.05819	.05339
	16.000	.00000	2653.07376	34.75490	529.73420	.25117	.21331	.19278	.06660	.05785	.05293
	18.000	.00000	2650.25250	34.71894	529.18607	.24889	.21342	.19315	.07014	.06140	.05624
	20.000	.00000	2651.51239	34.73560	529.43997	.24057	.21827	.18804	.06765	.05968	.05454
	22.000	.00000	2652.55411	34.74832	529.53383	.23794	.21772	.18596	.07055	.06267	.05709
	24.000	.00000	2651.96234	34.74070	529.51771	.23637	.20580	.18455	.07014	.06238	.05684
GRADIENT		.00000	.39504	.00510	.07776	-.00428	-.00220	-.00154	-.00047	-.00020	-.00011

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ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7D06) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
.600	.000	2.00000	2623.08527	2060.85532	567.22995	.08259	.08253	.08257	.12837	.12831	.12836
2.000	2.000	2.00000	2625.49564	2058.85480	566.64084	.12941	.12924	.12938	-.09566	-.09557	-.09565
4.000	4.000	2.00000	2627.76624	2060.48969	567.27655	.13665	.13634	.13631	-.09039	-.09023	-.09021
6.000	6.000	2.00000	2627.00064	2059.99554	567.00510	.10269	.10261	.10262	-.10182	-.10155	-.10157
8.000	8.000	2.00000	2626.97994	2060.00323	566.97571	.08972	.08986	.10262	-.10190	-.10204	-.10190
10.000	10.000	2.00000	2626.30542	2059.42654	566.87888	.07465	.07473	.07460	-.10171	-.10179	-.10164
12.000	12.000	2.00000	2626.31223	2059.48074	566.83148	.05637	.05640	.05629	-.10067	-.10072	-.10054
14.000	14.000	2.00000	2629.99167	2061.44455	557.54712	.03203	.03193	.03196	-.10246	-.10235	-.10227
16.000	16.000	2.00000	2627.44873	2060.24384	567.20490	.00217	.00217	.00217	-.11119	-.11111	-.11102
18.000	18.000	2.00000	2626.31005	2059.46307	566.84698	-.03067	-.03066	-.03061	-.12032	-.12050	-.12032
20.000	20.000	2.00000	2626.65659	2059.71997	566.93661	-.07005	-.06993	-.06980	-.13740	-.13740	-.13716
22.000	22.000	2.00000	2624.28891	2057.95145	566.33746	-.10801	-.10747	-.10749	-.15634	-.15561	-.15563
24.000	24.000	2.00000	2623.73047	2057.53900	566.19147	-.14688	-.14543	-.14549	-.17680	-.17512	-.17519
GRADIENT		.00000	-.07975	-.09139	.01165	.01352	.01345	.01343	.00950	.00952	.00954

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
.900	.000	2.00000	2112.48575	1248.91620	863.56955	.29606	.29604	.29615	-.02913	-.02913	-.02914
2.000	2.000	2.00000	2115.92145	1251.04158	864.87988	.30294	.30340	.30371	-.01068	-.01068	-.01070
4.000	4.000	2.00000	2119.15109	1252.90967	866.24142	.29797	.29769	.29799	-.00153	-.00153	-.00153
6.000	6.000	2.00000	2117.58701	1251.97867	865.60834	.29897	.29878	.29873	.01458	.01457	.01457
8.000	8.000	2.00000	2114.79404	1250.37154	864.42252	.29354	.29344	.29357	.02460	.02459	.02460
10.000	10.000	2.00000	2119.07846	1252.94972	866.12375	.26884	.26874	.26882	.03366	.03365	.03362
12.000	12.000	2.00000	2115.97959	1251.07672	864.90286	.24715	.24715	.24706	.03733	.03733	.03732
14.000	14.000	2.00000	2114.68259	1250.28664	864.39397	.22273	.22268	.22267	.03744	.03743	.03743
16.000	16.000	2.00000	2116.93549	1251.61702	865.24348	.18829	.18823	.18823	.03259	.03256	.03258
18.000	18.000	2.00000	2117.39859	1251.38719	865.51141	.14918	.14887	.14903	.02430	.02425	.02428
20.000	20.000	2.00000	2115.91061	1251.01956	864.89105	.11311	.11295	.11308	.01497	.01495	.01497
22.000	22.000	2.00000	2110.44638	1247.78032	862.66608	.07894	.07873	.07875	.00303	.00302	.00302
24.000	24.000	2.00000	2109.08812	1246.91112	862.17700	.03723	.03691	.03689	-.00868	-.00861	-.00861
GRADIENT		.00000	1.56636	.99836	.66797	.00048	.00041	.00046	-.00690	-.00690	-.00690

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7D06) (02 AUG 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
ALPHA	2.00000	2003.55424	828.76637	1166.48930	.47259	.47230	.47226	.14262	.14256	.14254
.000	2.00000	2008.90266	828.44971	1166.04420	.47630	.47613	.47521	.14292	.14288	.14287
4.000	2.00000	2009.08081	828.45160	1166.04584	.46531	.46498	.46402	.15437	.15426	.15403
6.000	2.00000	2012.49275	829.60759	1167.67390	.45170	.45110	.45107	.16620	.16603	.16602
8.000	2.00000	2012.15788	829.57032	1167.62230	.43931	.43969	.43884	.15417	.15410	.15385
10.000	2.00000	2011.92180	829.36008	1167.32553	.42459	.42447	.42389	.12166	.12164	.12150
12.000	2.00000	2013.54626	829.94049	1168.14247	.40297	.40255	.40232	.09911	.09902	.09898
14.000	2.00000	2015.19850	830.40101	1168.79065	.37712	.37674	.37651	.10004	.09996	.09981
16.000	2.00000	2013.69295	829.94411	1168.14755	.34785	.34750	.34734	.10104	.10108	.10104
18.000	2.00000	2013.23676	829.86232	1168.03244	.31505	.31453	.31431	.08667	.08655	.08650
20.000	2.00000	2017.18069	830.97342	1169.59631	.28336	.28287	.28262	.07919	.07908	.07902
22.000	2.00000	2019.10837	831.89906	1170.99917	.25735	.25691	.25656	.07521	.07510	.07502
24.000	2.00000	2020.01411	832.02097	1171.07062	.23612	.23531	.23517	.06498	.06479	.06476
GRADIENT	.00000	-1.1837	-0.07869	-1.1077	-0.0182	-0.0185	-0.0206	.00294	.00293	.00287

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
ALPHA	2.00000	2044.20187	642.54803	1316.73218	.44170	.43790	.43278	.09156	.09096	.09015
.000	2.00000	2046.48904	643.12830	1317.92126	.43656	.43439	.42957	.09611	.09575	.09492
2.000	2.00000	2041.44493	641.78365	1315.16579	.42424	.42403	.41977	.10314	.10310	.10229
4.000	2.00000	2044.57449	642.62668	1316.89333	.41186	.41076	.40639	.10624	.10501	.10513
6.000	2.00000	2040.73563	641.70628	1315.00722	.40107	.40017	.39635	.10881	.10861	.10779
8.000	2.00000	2035.77562	640.44118	1312.41475	.38070	.37936	.37606	.10474	.10444	.10372
10.000	2.00000	2036.94429	640.72521	1312.96580	.36795	.36805	.36325	.10356	.10312	.10249
12.000	2.00000	2039.65687	641.42471	1314.43022	.34975	.34885	.34644	.10368	.10346	.10288
14.000	2.00000	2039.60769	641.40276	1314.38522	.32843	.32782	.32513	.10117	.10104	.10033
16.000	2.00000	2039.32877	641.25414	1314.10118	.32143	.31967	.31883	.10191	.10144	.10059
18.000	2.00000	2033.91595	639.92600	1311.35902	.31759	.31482	.31256	.10235	.10160	.10099
20.000	2.00000	2023.58159	637.19749	1305.76765	.30284	.29983	.29761	.09481	.09401	.09343
22.000	2.00000	2021.60355	636.67937	1304.70592	.28516	.28172	.27970	.08860	.08758	.08716
24.000	2.00000	2021.68921	-1.19109	-39.160	-0.0437	-0.0347	-0.0325	.00288	.00363	.00303
GRADIENT	.00000	-1.1837	-0.07869	-1.1077	-0.0182	-0.0185	-0.0206	.00294	.00293	.00287

ARC 11-97-87-094 0A161 ORBITER + RAKES

(02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = 0000 IN. YO
BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AILRON =

2.000 ELEVON = .080
.000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
1.550	0.000	2.00000	1563.49895	397.96504	1036.97801	.44605	.43868	.43218	.09486	.09367	.09261
2.000	0.000	2.00000	1570.76030	398.53608	1038.46596	.43524	.42821	.42227	.09552	.09730	.09626
4.000	0.000	2.00000	1572.20036	398.86619	1039.32613	.42327	.41656	.41149	.09901	.09779	.09686
6.000	0.000	2.00000	1572.37077	398.90957	1039.43916	.40992	.40302	.39873	.10412	.10274	.10188
8.000	0.000	2.00000	1573.70795	399.25253	1040.33282	.39573	.39018	.38612	.10471	.10355	.10269
10.000	0.000	2.00000	1573.65640	399.24512	1040.31351	.38175	.37702	.37342	.10364	.10261	.10183
12.000	0.000	2.00000	1572.64623	398.96661	1039.63991	.37085	.36701	.36351	.10502	.10414	.10334
14.000	0.000	2.00000	1572.69780	399.00035	1039.67572	.36070	.35692	.35276	.10703	.10611	.10510
16.000	0.000	2.00000	1572.12041	398.84643	1039.27986	.35083	.34783	.34369	.10522	.10449	.10352
18.000	0.000	2.00000	1571.97592	398.81422	1039.19070	.33905	.33654	.33334	.10395	.10331	.10250
20.000	0.000	2.00000	1574.13762	399.35440	1040.62433	.32875	.32623	.32268	.10061	.09897	.09807
22.000	0.000	2.00000	1576.42464	399.93516	1042.11156	.31893	.31646	.31345	.09503	.09442	.09367
24.000	0.000	2.00000	1576.96555	400.08393	1042.49896	.30403	.30171	.29977	.08647	.08692	.08546
GRADIENT		.00000	.92511	.22529	.58703	-.00570	-.01553	-.00517	.00104	.00103	.00106

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
1.750	0.000	2.00000	1656.77100	311.18817	1071.52111	.44296	.42851	.41759	.10469	.10225	.10023
2.000	0.000	2.00000	1655.31691	310.91837	1070.59709	.43495	.42090	.41049	.10550	.10285	.10087
4.000	0.000	2.00000	1655.46857	310.84656	1070.63418	.42509	.41090	.40118	.10803	.10520	.10325
6.000	0.000	2.00000	1655.59386	310.97010	1070.77524	.41849	.40597	.39633	.11017	.10757	.10566
8.000	0.000	2.00000	1656.17558	311.07782	1071.14615	.40924	.39699	.38820	.10981	.10721	.10532
10.000	0.000	2.00000	1656.23152	311.08852	1071.16300	.39336	.38495	.37533	.11049	.10860	.10642
12.000	0.000	2.00000	1656.29276	311.09945	1071.22061	.37963	.37179	.36448	.11342	.11152	.10974
14.000	0.000	2.00000	1656.36481	311.11320	1071.26786	.36697	.35906	.35121	.11675	.11468	.11262
16.000	0.000	2.00000	1655.64990	310.98056	1070.81123	.35139	.34561	.33982	.11702	.11543	.11382
18.000	0.000	2.00000	1656.12805	311.05919	1071.11641	.34199	.33654	.33173	.11505	.11352	.11216
20.000	0.000	2.00000	1656.39803	311.11927	1071.28888	.33625	.33069	.32522	.11264	.11109	.10955
22.000	0.000	2.00000	1655.98810	311.04332	1071.02734	.32455	.31721	.31214	.11224	.11010	.10861
24.000	0.000	2.00000	1655.65131	310.98100	1070.81276	.31121	.30258	.29810	.10770	.10517	.10384
GRADIENT		.00000	-.32560	-.06040	-.20799	-.00447	-.00440	-.00410	.00078	.00074	.00075

(FE7D06) (02 AUG 76)

TABULATED DATA - QAI61 (ARC 11-97-87-094)
ARC 11-97-87-094 QAI61 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RNVL = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000
ALPHA
.000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
2.00000	1845.99238	235.71697	1093.83054	.39831	.37309	.35645	.09990	.09486	.09145
2.00000	1845.69019	235.68356	1093.67549	.39155	.36818	.35223	.10127	.09642	.09303
2.00000	1844.79626	235.56110	1093.10722	.38167	.35850	.34343	.10259	.09756	.09422
2.00000	1844.06850	235.46566	1092.66437	.37033	.35049	.33624	.10260	.09813	.09487
2.00000	1845.05612	235.59471	1093.26320	.36621	.34756	.33382	.10358	.09827	.09505
2.00000	1845.94762	235.71702	1093.83081	.35269	.33496	.32327	.10518	.10082	.09790
2.00000	1845.38353	235.63626	1093.45602	.34480	.33088	.31984	.10282	.09939	.09653
2.00000	1846.05315	235.72144	1093.85130	.33749	.32145	.31092	.10172	.09770	.09503
2.00000	1846.19992	235.73932	1093.93427	.32618	.31364	.30462	.10081	.09757	.09521
2.00000	1846.65709	235.79776	1094.20544	.30936	.29910	.29075	.09667	.09397	.09175
2.00000	1847.25053	235.88823	1094.62527	.29860	.28890	.27943	.09749	.09480	.09215
2.00000	1847.20595	235.88139	1094.59354	.29341	.28171	.27350	.09835	.09568	.09358
2.00000	1846.34912	235.77158	1094.08394	.28148	.25967	.26220	.09859	.09502	.09274
.00000	-.29651	-.03897	-.18083	-.00416	-.03365	-.00326	.00067	.00068	.00058

RNVL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250
ALPHA
.000
2.000
4.000
6.000
8.000
10.000
12.000
14.000
16.000
18.000
20.000
22.000
24.000
GRADIENT

BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
2.00000	2059.21463	178.10006	1068.92479	.41984	.37817	.35501	.09852	.09115	.08667
2.00000	2059.05692	178.08647	1068.84325	.41488	.37356	.35149	.10269	.09454	.09003
2.00000	2059.38257	178.11435	1069.01056	.40570	.36852	.34546	.10447	.09679	.09188
2.00000	2059.19521	178.09820	1068.91364	.39217	.35827	.33719	.10482	.09759	.09281
2.00000	2059.07996	178.08838	1068.85469	.38100	.35034	.33105	.10620	.09925	.09475
2.00000	2059.48004	178.12256	1069.05988	.37262	.34348	.32704	.10597	.09919	.09527
2.00000	2058.62692	178.04952	1068.62146	.35840	.33227	.31727	.10408	.09784	.09417
2.00000	2059.07443	178.08793	1068.85205	.35065	.32826	.31323	.10396	.09846	.09471
2.00000	2058.61588	178.04855	1068.61566	.33601	.31615	.30303	.10332	.09822	.09480
2.00000	2058.53250	178.04136	1068.57248	.32692	.30799	.29541	.10382	.09877	.09536
2.00000	2058.52477	178.04055	1068.56763	.31710	.30118	.28825	.10161	.09731	.09366
2.00000	2058.59705	178.04666	1068.60429	.31957	.30162	.28825	.11014	.09731	.09366
2.00000	2058.37756	178.02781	1068.49115	.27387	.25758	.24751	.08129	.07715	.07455
.00000	.04199	.00357	.02144	-.00354	-.00241	-.00238	.00139	.00141	.00130

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(1F7D06) (02 AUG 76)

REFERENCE DATA

SPEF = 269C.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = 2.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
.000	.000	2.00000	1487.32057	86.97802	654.60834	.37619	.32594	.30062	.08813	.07655	.07351
2.000	2.000	2.00000	1487.93101	87.01836	654.91200	.37928	.33048	.30580	.09292	.08318	.07805
4.000	4.000	2.00000	1487.96725	87.01707	654.90228	.37018	.32356	.29822	.09462	.08486	.07933
6.000	6.000	2.00000	1487.98211	87.01669	654.89940	.35758	.31447	.29111	.09441	.08502	.07974
8.000	8.000	2.00000	1487.95708	87.01653	654.89824	.34570	.30726	.28583	.09585	.08698	.08212
10.000	10.000	2.00000	1487.91705	87.01443	654.88243	.33332	.29835	.28001	.09256	.08445	.08005
12.000	12.000	2.00000	1487.93314	87.01538	654.88956	.32470	.29339	.27680	.09567	.08727	.08369
14.000	14.000	2.00000	1487.92639	87.01483	654.88538	.31565	.28557	.27235	.09224	.08509	.08215
16.000	16.000	2.00000	1487.94725	87.01604	654.89454	.30713	.28350	.26364	.09370	.08781	.08355
18.000	18.000	2.00000	1487.92914	87.01502	654.88582	.30178	.27948	.25548	.09307	.08755	.08339
20.000	20.000	2.00000	1487.95275	87.01727	654.90379	.29049	.27038	.24348	.09211	.08733	.08273
22.000	22.000	2.00000	1487.95438	87.01694	654.90131	.27613	.25747	.23325	.09086	.08545	.08145
24.000	24.000	2.00000	1487.98357	87.01867	654.91432	.26444	.24635	.22325	.09086	.08545	.08145
GRADIENT		.00000	.16166	.00976	.07349	-.00150	-.00059	-.00060	.00162	.00158	.00145

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
.000	.000	2.00000	1939.15904	51.12361	565.47639	.34989	.28368	.25442	.08565	.07048	.06427
2.000	2.000	2.00000	1940.13321	51.14938	565.76151	.34576	.28174	.25130	.08316	.07038	.06384
4.000	4.000	2.00000	1939.45256	51.13434	565.59507	.34359	.28106	.25136	.08723	.07398	.06726
6.000	6.000	2.00000	1939.50688	51.13526	565.60524	.33092	.27362	.24663	.08624	.07365	.06743
8.000	8.000	2.00000	1939.64354	51.14013	565.65913	.30540	.25757	.23436	.08460	.07329	.06758
10.000	10.000	2.00000	1937.17825	51.07750	564.96639	.30799	.26188	.23935	.08500	.07416	.06856
12.000	12.000	2.00000	1938.09195	51.10284	565.24663	.29514	.25480	.23390	.08204	.07246	.06731
14.000	14.000	2.00000	1937.63146	51.10284	565.07146	.28248	.24768	.22792	.08079	.07224	.06723
16.000	16.000	2.00000	1939.26942	51.13221	565.35637	.26714	.23932	.22588	.08224	.07428	.06908
18.000	18.000	2.00000	1938.53479	51.11276	565.57153	.27663	.24562	.22053	.08157	.07420	.06910
20.000	20.000	2.00000	1938.72614	51.12192	565.45771	.25875	.23287	.21476	.08139	.07429	.06921
22.000	22.000	2.00000	1938.94917	51.12888	565.53468	.25304	.22829	.21050	.08176	.07476	.06962
24.000	24.000	2.00000	1938.90468	51.12836	565.52881	.24804	.22372	.20612	.08337	.07618	.07085
GRADIENT		.00000	.07349	.00268	.02967	-.00160	-.00071	-.00076	.00088	.00086	.00075

(FETD06) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -.7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP042	DP052	DP062	DP064	DP064	DP064
3.500	.000	2.00000	2667.88812	34.95021	532.71109	.35882	.27425	.23820	.08561	.08561	.06054
4.000	2.000	2.00000	2667.98584	34.95149	532.73055	.35413	.27246	.23603	.08436	.08436	.06024
6.000	4.000	2.00000	2667.55579	34.94600	532.64689	.34471	.26749	.23296	.08509	.08509	.06134
8.000	6.000	2.00000	2668.66705	34.96039	532.86630	.33214	.26029	.22829	.08311	.08311	.06067
10.000	8.000	2.00000	2668.83286	34.96260	532.85992	.32167	.25512	.22611	.08434	.08434	.06263
12.000	10.000	2.00000	2667.49628	34.94465	532.62630	.30579	.24934	.22252	.08329	.08329	.06356
14.000	12.000	2.00000	2669.69775	34.97392	533.07244	.29295	.24333	.21777	.08279	.08279	.06422
16.000	14.000	2.00000	2668.85501	34.96312	532.90790	.28169	.23838	.21297	.08109	.08109	.06374
18.000	16.000	2.00000	2669.65961	34.97344	533.06512	.26945	.23137	.20759	.07972	.07972	.06360
20.000	18.000	2.00000	2668.67300	34.96078	532.87227	.25997	.22586	.20347	.08010	.08010	.06470
22.000	20.000	2.00000	2670.18805	34.98034	533.17038	.25785	.22504	.20284	.08210	.08210	.06556
24.000	22.000	2.00000	2668.19308	34.95369	532.76417	.25319	.22115	.19853	.08383	.08383	.06774
GRADIENT		2.00000	2670.01163	34.97799	533.13458	.25204	.22011	.19747	.08473	.08473	.06836
		.00000		- .00105	- .01603	-.00353	-.00169	-.00131	-.00013	-.00013	.00010

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ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7D07) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIRLON =

5.080 ELEVON =
.000 BOFLAP =

.000
-7.170

PARAMETRIC DATA

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	.500	ALPHA	BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
	.000	5.00000	2624.00095	2057.68289	566.31805	566.31805	.18116	.18133	.18134	-.09373	-.09379	-.09380
	2.000	5.00000	2623.93231	2057.61972	566.31259	566.31259	.20751	.20755	.20752	-.07475	-.07476	-.07475
	4.000	5.00000	2624.56335	2058.36877	566.46758	566.46758	.22375	.22339	.22353	-.06531	-.06531	-.06521
	6.000	5.00000	2627.65573	2060.37476	567.28098	567.28098	.19903	.19897	.19890	-.06747	-.06745	-.06743
	8.000	5.00000	2625.01135	2058.40189	566.61947	566.61947	.19562	.19558	.19552	-.05347	-.05346	-.05345
	10.000	5.00000	2625.85368	2059.00568	566.85800	566.85800	.18418	.18405	.18394	-.05340	-.05337	-.05334
	12.000	5.00000	2624.17407	2057.86670	566.33737	566.33737	.15771	.15770	.15768	-.05193	-.05192	-.05192
	14.000	5.00000	2624.36069	2058.02087	566.33981	566.33981	.12350	.12327	.12341	-.06440	-.06440	-.06440
	16.000	5.00000	2624.72836	2058.21182	566.51654	566.51654	.09174	.09174	.09172	-.07114	-.07109	-.07108
	18.000	5.00000	2627.18732	2059.99523	567.20209	567.20209	.05060	.05055	.05052	-.07897	-.07896	-.07896
	20.000	5.00000	2627.48154	2060.22818	567.25336	567.25336	.00118	.00117	.00117	-.09749	-.09737	-.09726
	22.000	5.00000	2625.04254	2058.51157	566.53099	566.53099	-.04146	-.04132	-.04122	-.11621	-.11597	-.11559
	24.000	5.00000	2625.90552	2059.18518	566.72034	566.72034	-.08483	-.08398	-.08384	-.13617	-.13488	-.13467
GRADIENT		.00000	.21397	.17145	.04238	.04238	.01065	.01051	.01040	.00708	.00712	.00715

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	.900	ALPHA	BETA	PT	P	OCOMP	DP042	DP052	DP062	DP044	DP054	DP064
	.000	5.00000	2111.48715	1248.50783	862.97934	862.97934	.43828	.43965	.43998	.01154	.01154	.01154
	2.000	5.00000	2115.43283	1250.78174	864.65109	864.65109	.44130	.44128	.44132	.02511	.02511	.02511
	4.000	5.00000	2117.10138	1251.73029	865.37109	865.37109	.44038	.43983	.44029	.04346	.04342	.04346
	6.000	5.00000	2114.79214	1250.37328	864.41888	864.41888	.44137	.44173	.44172	.05977	.05977	.05977
	8.000	5.00000	2109.96957	1247.40634	862.56323	862.56323	.43646	.43665	.43609	.07636	.07636	.07629
	10.000	5.00000	2116.58933	1251.47731	865.09103	865.09103	.40234	.40206	.40196	.08214	.08214	.08212
	12.000	5.00000	2116.71036	1251.56195	865.14941	865.14941	.37591	.37593	.37608	.08948	.08949	.08952
	14.000	5.00000	2112.28323	1248.90517	863.37808	863.37808	.34872	.34862	.34861	.09292	.09292	.09292
	16.000	5.00000	2114.93735	1250.43449	864.41287	864.41287	.31152	.31109	.31097	.08811	.08811	.08808
	18.000	5.00000	2115.76746	1250.94657	864.82080	864.82080	.27329	.27278	.27264	.08353	.08353	.08349
	20.000	5.00000	2108.11159	1246.37889	861.73282	861.73282	.23234	.23180	.23170	.07442	.07427	.07424
	22.000	5.00000	2109.97089	1247.37915	862.59174	862.59174	.17999	.17948	.17931	.05450	.05436	.05431
	24.000	5.00000	2116.70166	1251.42284	865.27884	865.27884	.12816	.12738	.12720	.03991	.03991	.03986
GRADIENT		.00000	1.40354	.80562	.59794	.59794	.00028	.00007	.00008	.00798	.00797	.00798

(FE7D07) (02 AUG 76)

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 OPBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.8000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 5.000 ELEVON = .000
AILRON = .000 BOLFAP = -7.178

PARAMETRIC DATA

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	BETA	PT	P	OCOMP	DPOW2	DPO52	DPO62	DPOW4	DPO54	DPO64
ALPHA	5.00000	2011.57369	829.44221	1167.44115	.62364	.62309	.52259	.20083	.20065	.20053
.000	5.00000	2009.60754	829.83453	1166.58583	.62783	.62730	.62633	.19081	.19063	.19047
2.000	5.00000	2010.79175	829.08212	1166.93431	.61253	.61138	.61085	.20558	.20529	.20515
4.000	5.00000	2013.55270	830.00262	1168.22922	.59447	.59321	.59311	.22007	.21972	.21958
6.000	5.00000	2013.05412	829.84943	1168.01431	.57832	.57805	.57752	.21486	.21471	.21456
8.000	5.00000	2013.09351	823.88534	1168.06527	.55113	.55049	.54971	.18330	.18313	.18293
10.000	5.00000	2013.92958	830.14928	1168.43494	.53487	.53436	.53350	.15709	.15698	.15679
12.000	5.00000	2014.49097	830.35471	1168.72548	.51383	.51350	.51275	.15870	.15862	.15844
14.000	5.00000	2014.72244	830.37983	1168.76085	.47649	.47582	.47526	.15793	.15776	.15761
16.000	5.00000	2016.26015	830.79547	1168.34586	.43613	.43504	.43454	.13404	.13366	.13273
18.000	5.00000	2018.08555	831.44070	1170.25401	.39947	.39814	.39783	.13099	.13055	.13050
20.000	5.00000	2018.50551	830.88952	1169.47824	.37079	.36928	.36911	.12394	.12344	.12337
22.000	5.00000	2018.10297	831.41154	1170.21299	.33488	.33328	.33307	.00119	.00116	.00115
24.000	5.00000	2018.18549	831.41154	1170.21299	.33488	.33328	.33307	.00119	.00116	.00115
GRADIENT	.00000	-.18549	-.09002	-.12671	-.00283	-.07293	-.00294			

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400	BETA	PT	P	OCOMP	DPOW2	DPO52	DPO62	DPOW4	DPO54	DPO64
ALPHA	5.00000	2051.64971	644.49467	1320.72128	.55101	.54613	.54059	.13001	.12917	.12821
.000	5.00000	2052.59506	644.77777	1321.30142	.55324	.55015	.54460	.13749	.13693	.13591
2.000	5.00000	2045.37286	642.84837	1317.34763	.54121	.53816	.53338	.14575	.14514	.14418
4.000	5.00000	2043.72665	642.43147	1316.49332	.53078	.52865	.52408	.15034	.14989	.14891
6.000	5.00000	2038.74538	641.18605	1313.94118	.51679	.51441	.51025	.15231	.15178	.15084
8.000	5.00000	2037.38092	640.82363	1313.15947	.49894	.49658	.49334	.15381	.15325	.15248
10.000	5.00000	2038.57206	641.10638	1313.77788	.48330	.48099	.47775	.15332	.15275	.15195
12.000	5.00000	2044.59929	642.68520	1317.01324	.46532	.46349	.45150	.14910	.14863	.14785
14.000	5.00000	2042.24944	642.08685	1315.78711	.42913	.42790	.42511	.14756	.14722	.14645
16.000	5.00000	2029.50903	639.78069	1309.01199	.41992	.41859	.41568	.15117	.15078	.14993
18.000	5.00000	2032.02077	639.50005	1310.48613	.40723	.40525	.40249	.14900	.14841	.14759
20.000	5.00000	2035.48525	640.41441	1312.35938	.38427	.38151	.37878	.14246	.14161	.14078
22.000	5.00000	2020.62016	636.51413	1304.36728	.37261	.36962	.36711	.14508	.14410	.14328
24.000	5.00000	2020.62016	636.51413	1304.36728	.37261	.36962	.36711	.14508	.14410	.14328
GRADIENT	.00000	-1.56897	-.41158	-.84341	-.00245	-.00199	-.00180	.00393	.00399	.00399

(FE7D07) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = 5.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
.000	5.00000	1561.82259	396.34618	1032.75972	56308	.57410	.56308	.55579	.13829	.13535	.13507
2.000	5.00000	1563.04628	396.66676	1033.56905	.56155	.57375	.56155	.55438	.14061	.13842	.13713
4.000	5.00000	1563.16922	396.66547	1033.55172	.55079	.56302	.55079	.54504	.14104	.13879	.13772
6.000	5.00000	1563.46620	396.74025	1033.75556	.52921	.53795	.52921	.52263	.14319	.14145	.14013
8.000	5.00000	1567.33949	397.71354	1036.32269	.51050	.51814	.51050	.50404	.14533	.14371	.14233
10.000	5.00000	1572.23866	398.95424	1039.55556	.49325	.49968	.49325	.48761	.14605	.14461	.14334
12.000	5.00000	1570.17735	398.42982	1038.16909	.48563	.49154	.48563	.48079	.15027	.14887	.14772
14.000	5.00000	1568.15364	397.92425	1036.87173	.47600	.48389	.47600	.47099	.14903	.14781	.14700
16.000	5.00000	1568.63318	398.03831	1037.16893	.45911	.46389	.45911	.45437	.14829	.14708	.14589
18.000	5.00000	1568.80666	398.07167	1037.25586	.43955	.44684	.43955	.43437	.14621	.14437	.14343
20.000	5.00000	1568.97467	398.12064	1037.39345	.42375	.43104	.42375	.41808	.15443	.15244	.15156
22.000	5.00000	1571.11673	398.68293	1038.81490	.33718	.40135	.33718	.33393	.15952	.15815	.15704
24.000	5.00000	1571.43858	399.73946	1038.99330	.33191	.38468	.33191	.32919	.15595	.15501	.15409
GRADIENT	.00000	.33665	.07983	.20800	-.0307	-.00277	-.0307	-.00269	.00069	.00061	.00065

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
.000	5.00000	1655.65865	310.98269	1070.81854	.51834	.53727	.51834	.50572	.14810	.14417	.14151
2.000	5.00000	1655.87311	311.02239	1070.95529	.51251	.52887	.51251	.50358	.15250	.14892	.14627
4.000	5.00000	1655.81648	311.01186	1070.91904	.50700	.52407	.50700	.49590	.15019	.14646	.14401
6.000	5.00000	1656.53960	311.14603	1071.38103	.49157	.50623	.49157	.48121	.14968	.14655	.14416
8.000	5.00000	1655.73843	310.99725	1070.86871	.47983	.49259	.47983	.47105	.15344	.15035	.14821
10.000	5.00000	1655.74200	310.99860	1070.87334	.47346	.48546	.47346	.46433	.15538	.15237	.15006
12.000	5.00000	1654.84193	310.82005	1070.25854	.46167	.47103	.46167	.45244	.15682	.15436	.15191
14.000	5.00000	1656.26360	311.09286	1071.19794	.45102	.45866	.45102	.44324	.15306	.15095	.14846
16.000	5.00000	1655.03967	311.05466	1071.06638	.43561	.44358	.43561	.42777	.15255	.15064	.14835
18.000	5.00000	1655.22122	310.85534	1070.36005	.42353	.42716	.42353	.41258	.15022	.14834	.14606
20.000	5.00000	1654.73904	310.79540	1070.16747	.40506	.41275	.40506	.39920	.15049	.14850	.14644
22.000	5.00000	1655.71509	310.98600	1070.62997	.39078	.39756	.39078	.38473	.15562	.15342	.15145
24.000	5.00000	1656.66173	311.16761	1071.45531	.37979	.38669	.37979	.37369	.15684	.15483	.15274
GRADIENT	.00000	.03946	.00730	.02512	-.00283	-.00330	-.00283	-.00245	.00052	.00057	.00063

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7DQ7) (02 AUG 76)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BSFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP052	DP062	DP044	DP054	DP064
2.000	2.000	5.00000	1634.93984	234.25348	1087.03931	45218	43468	13108	12490	12112
4.000	4.000	5.00000	1830.93913	233.75630	1084.73218	44942	43167	13141	12524	12137
6.000	6.000	5.00000	1831.46227	233.83033	1085.07568	44397	42607	13362	12791	12384
8.000	8.000	5.00000	1831.73677	233.86808	1085.26089	43196	41552	13586	13009	12615
10.000	10.000	5.00000	1834.07591	234.17492	1086.67477	41567	40116	13470	12917	12595
12.000	12.000	5.00000	1836.11595	234.42052	1087.81444	40407	38935	13270	12801	12528
14.000	14.000	5.00000	1835.10439	234.41899	1087.80734	39508	38235	13365	12848	12511
16.000	16.000	5.00000	1841.39902	235.10691	1090.99950	39257	36930	13207	12812	12463
18.000	18.000	5.00000	1849.66311	235.19734	1096.05959	38211	35540	12953	12674	12332
20.000	20.000	5.00000	1849.99158	236.21837	1096.15729	37793	35474	13303	12919	12913
22.000	22.000	5.00000	1845.65546	235.65004	1093.56639	36755	34563	13577	13228	12913
24.000	24.000	5.00000	1847.52986	235.89360	1094.65019	35622	32570	13147	12851	12508
GRADIENT		5.00000	1848.52892	236.04575	1095.55625	32230	31226	13309	12959	12651
		.00000	-1.86914	-1.10579	-1.49091	-1.00255	-1.00215	.00063	.00075	.00058

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	DP052	DP062	DP044	DP054	DP064
2.250	2.000	5.00000	2059.35877	178.11419	1069.00958	41673	39405	12765	11844	11329
4.000	4.000	5.00000	2058.48529	178.03863	1068.55612	41251	39065	13003	12076	11553
6.000	6.000	5.00000	2059.33249	178.11115	1068.99139	41303	39056	13218	12297	11747
8.000	8.000	5.00000	2059.45581	178.12163	1069.05426	40562	38535	13015	12154	11665
10.000	10.000	5.00000	2058.44526	178.03483	1069.53333	39889	37022	12950	12127	11653
12.000	12.000	5.00000	2059.21469	178.10055	1069.92778	37595	35982	13164	12419	11955
14.000	14.000	5.00000	2058.72852	178.05987	1068.67758	37341	35696	13521	12819	12323
16.000	16.000	5.00000	2059.33539	178.02506	1069.47466	36300	34640	13447	12745	12359
18.000	18.000	5.00000	2059.73508	178.14466	1069.13247	35693	34092	13447	12763	12264
20.000	20.000	5.00000	2058.78250	178.05276	1068.70093	35005	33546	13457	12763	12264
22.000	22.000	5.00000	2059.53272	178.13587	1069.15972	34144	32776	13843	13242	12791
24.000	24.000	5.00000	2058.96155	178.07759	1068.78992	33056	31692	13549	12786	12356
GRADIENT		5.00000	2059.71259	178.05665	1068.66547	34376	33010	15723	14935	14482
		.00000	-1.00907	-1.00976	-1.00455	-1.00079	-1.00087	.00113	.00113	.00104

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TABLED DATA - 0A161 (ARC : 1-97-87-094)

ARC 11-97-87-C: + OA16! ORBITER + RAKES

REFERENCE DATA

=	SREF	=	2690.0000	SO.FT.	=	XMRP	=	1076.6800	IN.	XO
=	LREF	=	474.8000	IN.	=	YMRP	=	.0000	IN.	YO
=	BREF	=	936.6800	IN.	=	ZMRP	=	375.0000	IN.	ZO
=	SCALE	=	.0300							

BETA	5.000	ELEVON	-.000
AILRON	.000	BDFLAP	-7.170

$RN/L = 2.00$	$GRADIENT\ INTERVAL = -5.00/$	5.00
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MACH = 2.500

[illegible]

RV/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH . = 3.000

ALPHA	BETA	PT	P	QCMP	DP0+2	DP0+2	DP0+4	DP0+4	DP0+5
5.00000	5.00000	1939.46461	51.12282	565.46770	38218	31313	28494	10687	93083
2.000	5.00000	1937.72949	51.07815	564.97363	37926	30949	28165	10726	93393
4.000	5.00000	1938.05321	51.08665	565.06321	37117	30510	27811	10730	93177
6.000	5.00000	1938.52211	51.09304	565.20436	36459	29337	27507	10756	93233
8.000	5.00000	1938.14912	51.09547	565.16351	34961	29437	26949	10637	93223
10.000	5.00000	1938.11229	51.09665	565.1573	33816	28993	26520	10619	93233
12.000	5.00000	1937.93176	51.09282	565.12921	32833	28053	26165	10613	93233
14.000	5.00000	1938.21223	51.10261	565.24734	31681	27305	25552	10613	93233
16.000	5.00000	1938.60711	51.12433	565.43102	30883	26423	25132	10613	93233
18.000	5.00000	1938.67455	51.12433	565.48442	29934	25668	24756	10613	93233
20.000	5.00000	1938.67455	51.11730	565.40661	29145	25034	24216	10613	93233
22.000	5.00000	1938.60377	51.12622	565.50747	28549	24326	23716	10613	93233
24.000	5.00000	1938.03442	51.11131	565.34074	27949	23625	23071	10613	93233
26.000	5.00000	1938.35373	51.09914	565.10112	27025	22976	22478	10613	93233

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(F7D07) 1 02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0000

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.370

PARAMETRIC DATA

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	DP042	DP052	DP062	DP044	DP054	DP064
3.500	.000	5.00000	2683.02945	35.14780	535.72283	.37691	.29347	.26023	.10487	.05539	.07712
4.000	.000	5.00000	2682.78683	35.14482	535.67736	.37185	.28831	.23440	.10368	.08408	.07560
4.000	.000	5.00000	2680.96332	35.12155	535.32265	.34663	.28467	.23211	.10325	.08575	.07731
6.000	.000	5.00000	2682.66058	35.14306	535.61053	.35545	.28091	.24980	.10524	.08552	.07826
8.000	.000	5.00000	2680.66055	35.11761	535.21256	.34309	.27539	.24569	.10375	.08637	.07826
10.000	.000	5.00000	2682.31409	35.13848	535.58065	.32759	.27028	.24191	.10335	.08782	.07980
12.000	.000	5.00000	2680.79922	35.11946	535.25087	.31710	.26608	.23761	.10378	.08441	.08105
14.000	.000	5.00000	2681.94269	35.13391	535.51109	.30555	.25935	.23206	.10163	.08823	.08020
16.000	.000	5.00000	2680.62974	35.11878	535.28040	.29340	.25055	.22479	.10150	.08416	.08041
18.000	.000	5.00000	2680.17957	35.11156	535.17936	.28956	.24863	.22252	.10391	.09132	.08282
20.000	.000	5.00000	2682.18320	35.13710	535.55972	.28060	.24261	.21778	.10239	.08225	.08202
22.000	.000	5.00000	2680.60205	35.11555	535.23274	.27586	.23552	.21434	.10372	.08139	.08309
24.000	.000	5.00000	2690.41931	35.11479	535.21957	.27178	.23533	.21248	.10502	.08343	.08520
GRADIENT		.00000	-.51554	-.00556	-.10005	-.00307	-.10220	-.00203	.00010	.00009	.00005

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7X03) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -5.000 ELEVON = .000
AILRON = .000 BDCLAP = -7.170

PARAMETRIC DATA

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
1.200	.000	-5.00000	2003.91339	828.82202	1166.58822	1.00674	1.00622	1.00630	1.14013	1.13962	1.13970
2.000	.000	-5.00000	2009.58676	828.57557	1166.22134	1.01193	1.01172	1.01192	1.12914	1.12893	1.12912
4.000	.000	-5.00000	2012.39209	829.41618	1167.43450	1.01730	1.01751	1.01718	1.12105	1.12126	1.12084
6.000	.000	-5.00000	2007.30058	828.01813	1165.43674	1.01953	1.01970	1.01971	1.11680	1.11697	1.11698
8.000	.000	-5.00000	2005.18105	827.76498	1165.03044	1.02582	1.02541	1.02540	1.13057	1.13017	1.13016
10.000	.000	-5.00000	1999.63934	826.38300	1163.13526	1.03204	1.03085	1.03045	1.16537	1.16420	1.16381
12.000	.000	-5.00000	2001.46516	826.74883	1163.65021	1.04481	1.04307	1.04255	1.18624	1.18452	1.18401
14.000	.000	-5.00000	2001.03822	826.64798	1163.50826	1.05819	1.05591	1.05648	1.19050	1.18824	1.18880
16.000	.000	-5.00000	1999.43224	826.30900	1163.03114	1.07029	1.06765	1.06889	1.19564	1.19700	1.19823
18.000	.000	-5.00000	2003.10529	827.20448	1164.29153	1.08799	1.08536	1.08605	1.21442	1.21180	1.21248
20.000	.000	-5.00000	2000.66202	826.62385	1163.47430	1.10475	1.10214	1.10275	1.22240	1.21978	1.22038
22.000	.000	-5.00000	1996.12405	825.65847	1162.11552	1.11679	1.11492	1.11599	1.22791	1.22604	1.22711
24.000	.000	-5.00000	1995.54181	825.41649	1161.77493	1.13248	1.13162	1.13300	1.23643	1.23556	1.23695
GRADIENT		.00000	.86967	.14854	.20908	.00264	.00282	.00272	-.00477	-.00459	-.00469

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
1.550	.000	-5.00000	1578.31139	400.01855	1042.32884	1.18844	1.19472	1.20111	1.50757	1.51445	1.52148
2.000	.000	-5.00000	1578.99117	400.18729	1042.76954	1.19627	1.20239	1.20890	1.50138	1.50806	1.51518
4.000	.000	-5.00000	1577.32025	399.78359	1041.71767	1.20355	1.20841	1.21467	1.49834	1.50474	1.51157
6.000	.000	-5.00000	1577.34303	399.79176	1041.73790	1.21115	1.21717	1.22412	1.49742	1.50398	1.51155
8.000	.000	-5.00000	1578.35884	400.03287	1042.36615	1.21315	1.21933	1.22554	1.48748	1.49700	1.50527
10.000	.000	-5.00000	1575.77289	399.39394	1040.70128	1.21823	1.22353	1.22767	1.48034	1.49316	1.50199
12.000	.000	-5.00000	1575.64334	399.36381	1040.63841	1.23028	1.24406	1.25008	1.49193	1.49732	1.50444
14.000	.000	-5.00000	1573.95380	399.44687	1040.83922	1.25028	1.25712	1.26353	1.48901	1.49639	1.50330
16.000	.000	-5.00000	1575.97449	399.45256	1040.85405	1.25484	1.26412	1.27166	1.49012	1.50012	1.50826
18.000	.000	-5.00000	1576.27609	399.52647	1041.04663	1.26518	1.27510	1.28219	1.49774	1.50843	1.51609
20.000	.000	-5.00000	1575.81670	399.41241	1040.74942	1.27734	1.28820	1.29584	1.51308	1.52482	1.53509
22.000	.000	-5.00000	1575.80844	399.41526	1040.75685	1.28272	1.29456	1.30278	1.53079	1.54367	1.55261
24.000	.000	-5.00000	1576.42549	399.57412	1041.17079	1.28882	1.30077	1.30868	1.53772	1.55073	1.55936
GRADIENT		.00000	-.24779	-.05863	-.15279	.00353	.00342	.00339	-.00231	-.00243	-.00248

TABULATED DATA - 0A161 (ARC 11-97-87-894)

ARC 11-97-87-894 0A161 ORBITER + RAKES

PAGE 667

(FE7X03) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = -5.000 ELEVON = .009
 AIRLON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.06

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M52	M44	M54	M54
1.750	0.000	-5.00000	1643.42418	309.79875	1066.72121	1.22666	1.24230	1.25886	1.60807	1.62583	1.64483
	2.000	-5.00000	1650.93587	310.08348	1067.72229	1.23666	1.25208	1.26685	1.60464	1.62208	1.63935
	4.000	-5.00000	1650.24094	309.94633	1067.23003	1.24266	1.25777	1.27267	1.60145	1.61851	1.63538
	6.000	-5.00000	1649.94432	309.89394	1067.03963	1.25041	1.26382	1.27838	1.60216	1.61728	1.63373
	8.000	-5.00000	1650.82304	310.06269	1067.63071	1.25037	1.27000	1.28478	1.59900	1.61103	1.62766
	10.000	-5.00000	1650.44762	309.98747	1067.33171	1.25790	1.27891	1.29235	1.58838	1.61191	1.62701
	12.000	-5.00000	1651.41377	310.17471	1068.03642	1.27641	1.29127	1.30320	1.60433	1.62099	1.63439
	14.000	-5.00000	1651.02856	310.09678	1067.76807	1.29088	1.30411	1.31711	1.61537	1.63022	1.64483
	16.000	-5.00000	1650.14075	309.92978	1067.19304	1.29196	1.31012	1.32279	1.61320	1.63355	1.64773
	18.000	-5.00000	1650.84254	310.06318	1067.65240	1.29748	1.31640	1.32942	1.62047	1.64170	1.65637
	20.000	-5.00000	1651.38724	310.16493	1068.00276	1.30377	1.32343	1.33675	1.63185	1.65399	1.66902
	22.000	-5.00000	1651.57825	310.20011	1068.12389	1.31903	1.33794	1.35154	1.63800	1.65924	1.67457
	24.000	-5.00000	1651.58163	310.20077	1068.12617	1.33001	1.34714	1.36121	1.65113	1.67049	1.68628
GRADIENT		.00000	.20419	.03840	.13221	.00400	.00387	.00342	-.00165	-.00183	-.00235

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M52	M44	M54	M54
2.000	0.000	-5.00000	1847.06216	235.97826	1095.04305	1.31753	1.35131	1.37971	1.79221	1.83269	1.86582
	2.000	-5.00000	1848.00623	236.10478	1095.63014	1.32587	1.35758	1.38492	1.78402	1.82178	1.85451
	4.000	-5.00000	1847.42177	236.02850	1095.27618	1.33547	1.36837	1.39456	1.77902	1.81880	1.84920
	6.000	-5.00000	1846.95721	235.96262	1094.97044	1.34519	1.37598	1.40050	1.78054	1.81695	1.84605
	8.000	-5.00000	1846.99805	235.96757	1094.99344	1.35496	1.38774	1.41280	1.77725	1.81593	1.84546
	10.000	-5.00000	1846.48546	235.89915	1094.67596	1.36131	1.39802	1.41917	1.77330	1.81565	1.84456
	12.000	-5.00000	1846.51515	235.90250	1094.63142	1.37711	1.40641	1.42855	1.79412	1.82850	1.85472
	14.000	-5.00000	1846.62762	235.91658	1094.75682	1.38837	1.41402	1.43571	1.81005	1.84065	1.86631
	16.000	-5.00000	1846.02921	235.83774	1094.34096	1.40013	1.42993	1.44944	1.81136	1.84637	1.86937
	18.000	-5.00000	1846.35066	235.87904	1094.59261	1.40417	1.43644	1.45676	1.80970	1.84756	1.87147
	20.000	-5.00000	1846.85618	235.94551	1094.89108	1.41338	1.44432	1.46589	1.80795	1.85105	1.87640
	22.000	-5.00000	1847.20575	235.98832	1095.03203	1.42325	1.45419	1.47582	1.80785	1.84387	1.86922
	24.000	-5.00000	1846.00113	235.83439	1094.37541	1.45134	1.48035	1.50202	1.83634	1.87015	1.89547
GRADIENT		.00000	.08990	.01256	.05829	.00449	.00427	.00371	-.00330	-.00367	-.00443

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 OF POOR QUALITY

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7X03) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -5.000 ELEVOM = .000
AIIRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
2.250	.000	-5.00000	2051.52133	177.43511	1064.93391	1.40094	1.45826	1.50121	1.96751	2.02908	2.08307
2.000	2.000	-5.00000	2050.73444	177.36766	1064.52908	1.40871	1.46567	1.50865	1.95124	2.02199	2.07570
4.000	4.000	-5.00000	2050.90634	177.38244	1064.61781	1.41910	1.47292	1.51437	1.95079	2.01737	2.06883
6.000	6.000	-5.00000	2050.73029	177.36738	1064.52737	1.43295	1.48186	1.52159	1.95872	2.01909	2.06839
8.000	8.000	-5.00000	2051.17938	177.40587	1064.75842	1.44687	1.49426	1.53137	1.96743	2.02582	2.07177
10.000	10.000	-5.00000	2051.78479	177.45775	1065.06981	1.45761	1.50398	1.54083	1.98009	2.03729	2.08293
12.000	12.000	-5.00000	2052.43539	177.51383	1065.40637	1.47466	1.51878	1.55274	1.98986	2.04413	2.08605
14.000	14.000	-5.00000	2054.13220	177.65454	1065.25092	1.48697	1.52892	1.56062	1.99122	2.04259	2.08156
16.000	16.000	-5.00000	2055.24664	177.75452	1066.85094	1.49326	1.53834	1.57140	1.99257	2.04764	2.08222
18.000	18.000	-5.00000	2055.90338	177.81194	1067.19557	1.49396	1.54191	1.57464	1.99257	2.05118	2.09134
20.000	20.000	-5.00000	2055.49188	177.77633	1066.98186	1.51113	1.55407	1.58665	2.00588	2.05830	2.09821
22.000	22.000	-5.00000	2055.36655	177.76571	1066.91809	1.51443	1.55993	1.59238	1.97847	2.03333	2.07250
24.000	24.000	-5.00000	2056.58188	177.86968	1067.54214	1.58498	1.63195	1.66630	2.13130	2.18979	2.23269
GRADIENT		.00000	-1.5373	-0.01317	-0.07902	.00454	.00367	.00329	-0.0168	-0.00293	-0.00353

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
2.500	.000	-5.00000	1498.56390	87.64465	659.62552	1.46213	1.53915	1.59773	2.10550	2.20530	2.28176
2.000	2.000	-5.00000	1497.87276	87.60338	659.31491	1.46775	1.54492	1.60625	2.10033	2.19990	2.27961
4.000	4.000	-5.00000	1497.09436	87.55775	658.97150	1.48103	1.55624	1.61535	2.10529	2.20280	2.27856
6.000	6.000	-5.00000	1497.75047	87.59612	659.26024	1.49819	1.57069	1.62725	2.11389	2.20681	2.27974
8.000	8.000	-5.00000	1497.84230	87.60144	659.30032	1.51718	1.58611	1.63698	2.13234	2.22063	2.28615
10.000	10.000	-5.00000	1497.81511	87.59991	659.28880	1.53847	1.60336	1.65222	2.15423	2.23734	2.30022
12.000	12.000	-5.00000	1497.81754	87.59988	659.28856	1.53776	1.60085	1.64754	2.14151	2.22192	2.28173
14.000	14.000	-5.00000	1497.78592	87.59764	659.27169	1.55044	1.61273	1.65632	2.15922	2.23876	2.29467
16.000	16.000	-5.00000	1497.77548	87.59658	659.26370	1.56204	1.62069	1.66528	2.16957	2.24450	2.30164
18.000	18.000	-5.00000	1497.77548	87.59658	659.26370	1.57468	1.63380	1.67840	2.17515	2.25036	2.30733
20.000	20.000	-5.00000	1497.79367	87.59782	659.27309	1.53693	1.64642	1.68953	2.19056	2.26632	2.32143
22.000	22.000	-5.00000	1497.81293	87.59903	659.28218	1.55363	1.65519	1.69947	2.18736	2.26284	2.31917
24.000	24.000	-5.00000	1497.82393	87.59926	659.28389	1.59299	1.65102	1.69675	2.17773	2.25108	2.30911
GRADIENT		.00000	-0.36739	-0.02172	-0.16350	.00472	.00442	.00441	-0.00005	-0.00062	-0.00080

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RMKES.

PARAMETRIC DATA

BETA = -5.000 ELEVON = .008
AILLON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00.

MACH = 3.000	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
ALPHA										
.000	-5.00000	1935.56339	51.10074	555.22348	1.46663	1.61230	1.70921	2.30776	2.46238	2.61851
2.000	-5.00000	1935.15036	51.09178	565.12438	1.49766	1.62225	1.72146	2.31745	2.49044	2.62863
4.000	-5.00000	1935.07675	51.11307	565.35988	1.51595	1.63913	1.73288	2.31610	2.48578	2.61616
6.000	-5.00000	1935.50783	51.12482	565.48977	1.54450	1.66347	1.75473	2.36661	2.53158	2.65926
8.000	-5.00000	1935.47981	51.12357	565.47600	1.57398	1.68940	1.78941	2.40309	2.55774	2.67384
10.000	-5.00000	1935.30977	51.12127	565.45056	1.60089	1.70802	1.78610	2.42445	2.57262	2.68135
12.000	-5.00000	1935.00462	51.11145	565.34191	1.61943	1.72292	1.79819	2.43889	2.59180	2.68630
14.000	-5.00000	1935.75789	51.09733	565.18574	1.64621	1.74312	1.80253	2.44133	2.57558	2.67887
16.000	-5.00000	1935.34929	51.08156	565.01133	1.68441	1.76611	1.83674	2.47464	2.57354	2.67406
18.000	-5.00000	1935.29300	51.07934	564.98677	1.66841	1.75511	1.83590	2.45106	2.60838	2.70559
20.000	-5.00000	1934.35158	51.05967	564.76923	1.66952	1.76492	1.84200	2.44133	2.58191	2.67875
22.000	-5.00000	1934.81860	51.07553	564.94459	1.67697	1.77096	1.84200	2.45334	2.58056	2.67721
24.000	-5.00000	1934.05580	51.04761	564.63582	1.67924	1.76933	1.84010	2.46570	2.58805	2.68464
GRADIENT	.00000	.12634	.00308	.03410	.00733	.00571	.00592	.00209	.00085	.00059

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
ALPHA										
.000	-5.00000	2547.37388	33.36888	508.69840	1.45181	1.61050	1.73571	2.38333	2.61364	2.79805
2.000	-5.00000	2547.81790	33.37489	508.70000	1.46206	1.62509	1.74853	2.38919	2.61487	2.79873
4.000	-5.00000	2546.94196	33.36394	508.53317	1.48768	1.64814	1.77998	2.41382	2.64594	2.82599
6.000	-5.00000	2547.50006	33.37128	508.64510	1.50723	1.66175	1.77654	2.41508	2.63688	2.83062
8.000	-5.00000	2547.17203	33.36708	508.58058	1.55454	1.69945	1.80563	2.49016	2.69960	2.89464
10.000	-5.00000	2551.36157	33.42099	509.40276	1.57921	1.71681	1.82073	2.49980	2.69726	2.84782
12.000	-5.00000	2555.54724	33.47640	510.24725	1.60559	1.73805	1.83831	2.54187	2.73111	2.87657
14.000	-5.00000	2558.82321	33.51909	510.99791	1.62877	1.75637	1.85354	2.53684	2.71851	2.85792
16.000	-5.00000	2563.66443	33.58292	511.37092	1.64945	1.77379	1.86950	2.52650	2.70731	2.84313
18.000	-5.00000	2567.71115	33.63562	512.67409	1.65845	1.78417	1.87839	2.51751	2.69310	2.82561
20.000	-5.00000	2572.38071	33.69739	513.61562	1.68243	1.80467	1.89788	2.56948	2.74157	2.87355
22.000	-5.00000	2578.11011	33.77192	514.75153	1.67125	1.79263	1.89373	2.52222	2.69238	2.81868
24.000	-5.00000	2578.93777	33.78332	514.92329	1.68986	1.80403	1.89530	2.58323	2.75013	2.87595
GRADIENT	.00000	-.10779	-.00123	-.01890	.00897	.00941	.00862	.00762	.00808	.00639

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7X04) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

BETA = -2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.08/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
1.550	.000	-2.00000	1574.43616	398.83030	1039.23260	1.12394	1.13068	1.13755	1.46462	1.47192	1.47857
2.000	.000	-2.00000	1573.92516	398.70513	1038.90645	1.13119	1.13766	1.14439	1.45922	1.46621	1.47350
4.000	.000	-2.00000	1573.05887	398.48754	1038.33949	1.13810	1.14474	1.15009	1.45417	1.46133	1.46712
6.000	.000	-2.00000	1573.57761	398.62070	1038.68646	1.14680	1.15307	1.15870	1.45122	1.45798	1.46405
8.000	.000	-2.00000	1574.31830	398.81203	1039.18500	1.15338	1.15765	1.16313	1.45255	1.45715	1.46305
10.000	.000	-2.00000	1574.64066	398.88485	1039.37476	1.15552	1.16377	1.17073	1.44274	1.45158	1.45908
12.000	.000	-2.00000	1574.84332	398.93706	1039.51079	1.16573	1.17386	1.18121	1.43780	1.44650	1.45439
14.000	.000	-2.00000	1574.59084	398.87534	1039.34998	1.18373	1.18778	1.19335	1.44630	1.45065	1.45663
16.000	.000	-2.00000	1575.31898	399.06065	1039.83284	1.19357	1.19900	1.20400	1.44532	1.45112	1.45648
18.000	.000	-2.00000	1575.34929	399.06569	1039.84596	1.20180	1.20950	1.21545	1.44717	1.45542	1.46179
20.000	.000	-2.00000	1574.16409	398.76549	1039.06374	1.21105	1.22024	1.22733	1.45790	1.46776	1.47539
22.000	.000	-2.00000	1574.15891	398.76766	1039.06938	1.21834	1.22889	1.23612	1.46328	1.47461	1.48240
24.000	.000	-2.00000	1574.64804	398.94400	1039.52860	1.22920	1.23949	1.24622	1.47224	1.48330	1.49057
GRADIENT		.00000	-34433	-88569	-22328	.00354	.00351	.00314	-.00261	-.00265	-.00306

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.08

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
1.750	.000	-2.00000	1650.94153	310.07585	1067.69946	1.17591	1.19172	1.20638	1.55662	1.57433	1.59083
2.000	.000	-2.00000	1652.84775	310.44413	1068.96416	1.18381	1.19951	1.21363	1.55196	1.56951	1.58525
4.000	.000	-2.00000	1653.85585	310.63168	1069.60992	1.18762	1.20202	1.21635	1.55334	1.56943	1.58551
6.000	.000	-2.00000	1654.30829	310.72412	1069.92824	1.19411	1.20756	1.22103	1.55518	1.57021	1.58532
8.000	.000	-2.00000	1653.79941	310.62094	1069.57295	1.20063	1.21369	1.22626	1.55363	1.56819	1.58227
10.000	.000	-2.00000	1654.31114	310.72391	1069.92749	1.20347	1.22121	1.23465	1.54535	1.56009	1.57917
12.000	.000	-2.00000	1655.30827	310.90964	1070.56705	1.21497	1.23373	1.24678	1.54391	1.56463	1.58073
14.000	.000	-2.00000	1655.65390	310.97398	1070.78859	1.23342	1.24418	1.25496	1.56313	1.57510	1.58713
16.000	.000	-2.00000	1654.93356	310.83946	1070.32539	1.24220	1.25284	1.26424	1.56883	1.58069	1.59341
18.000	.000	-2.00000	1655.58514	310.46767	1070.76698	1.24463	1.25447	1.26424	1.56400	1.57461	1.58475
20.000	.000	-2.00000	1657.05319	311.24283	1071.71434	1.25654	1.26637	1.27620	1.56294	1.57294	1.58216
22.000	.000	-2.00000	1657.68335	311.35872	1072.11337	1.27269	1.28897	1.30122	1.56639	1.57639	1.58639
24.000	.000	-2.00000	1657.51363	311.32766	1072.00642	1.28028	1.29583	1.30802	1.57086	1.58086	1.59086
GRADIENT		.00000	.73608	.13871	.47761	.00293	.00258	.00249	-.00082	-.00122	-.00133

TABULATED DATA - OA161 (ARC 11-97-87-09*)
ARC 11-97-87-09* OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA =
AIRLON =
-2.000 ELEVON = .000
.000 BOFLAP = -7.178

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M44	M54	M64
2.000	.000	-2.00000	1845.93443	235.90358	1094.69649	1.26112	1.29340	1.32080	1.73163	1.76891	1.80265
2.000	2.000	-2.00000	1846.41615	235.83478	1094.37723	1.26923	1.30183	1.32776	1.72735	1.76590	1.79577
4.000	4.000	-2.00000	1846.47842	235.84348	1094.41763	1.28050	1.31097	1.33769	1.72071	1.75833	1.78811
6.000	6.000	-2.00000	1847.01898	235.91540	1094.75133	1.29078	1.32153	1.34543	1.72376	1.75986	1.78807
8.000	8.000	-2.00000	1846.99838	235.91268	1094.73875	1.30306	1.33195	1.35414	1.72553	1.75935	1.78544
10.000	10.000	-2.00000	1846.95099	235.91120	1094.73189	1.31373	1.34347	1.36475	1.72651	1.76087	1.78583
12.000	12.000	-2.00000	1846.64996	235.86971	1094.53934	1.31855	1.35115	1.37191	1.72651	1.76452	1.78883
14.000	14.000	-2.00000	1846.59160	235.85966	1094.49269	1.33741	1.36201	1.38198	1.74674	1.77548	1.79930
16.000	16.000	-2.00000	1847.17349	235.94132	1094.87161	1.35034	1.37304	1.39252	1.75138	1.77784	1.80061
18.000	18.000	-2.00000	1846.84877	235.89649	1094.66362	1.36564	1.38290	1.40079	1.74358	1.77522	1.79604
20.000	20.000	-2.00000	1846.81461	235.88847	1094.62637	1.36421	1.39274	1.41152	1.74482	1.77786	1.79957
22.000	22.000	-2.00000	1847.35541	235.95847	1094.95123	1.37371	1.40115	1.42099	1.73828	1.76986	1.79276
24.000	24.000	-2.00000	1846.02296	235.78710	1094.15599	1.39736	1.42470	1.44346	1.74887	1.77941	1.80097
GRADIENT		.00000	-1.1399	-0.01502	-0.06971	.00483	.00439	.00422	-.00274	-.00334	-.00363

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M44	M54	M64
2.250	.000	-2.00000	2060.32037	178.19294	1069.48225	1.39010	1.44885	1.48898	1.93057	2.00343	2.05354
2.000	2.000	-2.00000	2059.98480	178.16426	1069.31013	1.39827	1.45710	1.49810	1.92527	2.00785	2.04877
4.000	4.000	-2.00000	2059.56003	178.12785	1069.09161	1.40670	1.46069	1.50229	1.92481	1.98112	2.04264
6.000	6.000	-2.00000	2060.01712	178.16692	1069.32610	1.41399	1.46496	1.50343	1.93429	1.98703	2.04464
8.000	8.000	-2.00000	2060.34888	178.19534	1069.49667	1.42369	1.47382	1.50868	1.93588	1.99740	2.04039
10.000	10.000	-2.00000	2060.24548	178.18648	1069.44347	1.44048	1.48635	1.52131	1.94840	2.08461	2.04765
12.000	12.000	-2.00000	2060.24661	178.18653	1069.44377	1.44509	1.48913	1.52147	1.94808	2.08070	2.04041
14.000	14.000	-2.00000	2060.47052	178.20613	1069.56143	1.45344	1.49896	1.52844	1.95326	2.08267	2.03875
16.000	16.000	-2.00000	2060.56393	178.21377	1069.60732	1.46328	1.50760	1.53637	1.95326	1.99910	2.03415
18.000	18.000	-2.00000	2060.33616	178.16844	1069.33524	1.48130	1.52197	1.54991	1.95808	2.00734	2.04130
20.000	20.000	-2.00000	2060.44346	178.20315	1069.54353	1.48211	1.52389	1.55108	1.92920	1.97921	2.01187
22.000	22.000	-2.00000	2060.15353	178.17854	1069.39586	1.52622	1.56780	1.59601	2.00729	2.05776	2.09211
24.000	24.000	-2.00000	2060.04486	178.16928	1069.34826	1.40591	1.44454	1.47428	1.73544	1.77940	1.81335
GRADIENT		.00000	-1.19008	-0.01627	-0.09767	.00415	.00296	.00333	-.00144	-.00306	-.00272

PARAMETRIC DATA

BETA	=	-2.000	ELEVON	=	.000
AILRON	=	.000	BOELAP	=	-7.170

REFERENCE DATA

SREF	=	2690.0000	SO.FT.	XMRP	=	1076.6800	IN.	XO
REF	=	474.8000	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0300						

BN/L =	2.00	GRADIENT INTERVAL =	-5.00/	5.00
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MACH = 2.500
ALPHA

2.500	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M54
2.000	-2.00000	1497.77222	87.59769	659.27209	1.39197	1.47285	1.52852	2.04056	2.14545	2.21831
2.000	-2.00000	1497.76450	87.59732	659.26928	1.39171	1.47475	1.52859	2.02023	2.14545	2.21831
4.000	-2.00000	1497.76714	87.59741	659.27001	1.40823	1.48502	1.54121	2.02738	2.12584	2.19851
6.000	-2.00000	1497.74226	87.59619	659.26081	1.42430	1.49928	1.55209	2.03784	2.13579	2.20190
8.000	-2.00000	1497.75372	87.59682	659.26557	1.44386	1.51333	1.56167	2.05882	2.14695	2.20926
10.000	-2.00000	1497.67010	87.59167	659.22676	1.45133	1.51558	1.56306	2.04790	2.12956	2.19029
12.000	-2.00000	1498.01534	87.61195	659.37941	1.47330	1.53621	1.58027	2.07465	2.15477	2.21120
14.000	-2.00000	1494.68498	87.41497	657.89693	1.48723	1.54675	1.58825	2.08372	2.15937	2.21240
16.000	-2.00000	1494.60895	87.41100	657.86705	1.49502	1.55197	1.59158	2.07365	2.14553	2.19576
18.000	-2.00000	1495.08878	87.43912	658.07867	1.50817	1.56327	1.60178	2.07722	2.14650	2.19514
20.000	-2.00000	1494.25999	87.39884	657.70778	1.51965	1.57126	1.61058	2.07600	2.14309	2.18995
22.000	-2.00000	1494.70457	87.41660	657.90915	1.53009	1.58146	1.61951	2.06918	2.13301	2.18048
24.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
26.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
28.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
30.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
32.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
34.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
36.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
38.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
40.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
42.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
44.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
46.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
48.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
50.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
52.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625
54.000	-2.00000	1494.94550	87.43099	658.01747	1.55017	1.59945	1.63991	2.08478	2.14590	2.19625

BN/1	=	1.93	GRADIENT INTERVAL	=	-5.00	5.00
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MACH = 3.000
ALPHA

3.000	BETA	PT	P	OCCOMP	M42	M52	M52	M44	M54	M54
0.000	-2.00000	1942.79845	51.29598	567.38300	1.44510	1.57577	1.66673	2.24611	2.42654	2.55365
0.000	-2.00000	1939.95528	51.22303	566.57606	1.45445	1.58637	1.67633	2.25796	2.43887	2.56804
2.000	-2.00000	1939.95528	51.25163	565.78629	1.46218	1.58974	1.67720	2.23847	2.41289	2.53391
4.000	-2.00000	1937.25540	51.02006	564.33104	1.48934	1.61314	1.69638	2.28964	2.46032	2.57624
6.000	-2.00000	1932.01018	51.02126	564.24371	1.51435	1.62751	1.70514	2.28596	2.44011	2.54675
8.000	-2.00000	1931.75623	51.02143	564.34621	1.53960	1.64637	1.72202	2.31254	2.45933	2.56318
10.000	-2.00000	1932.19310	51.02796	564.41837	1.55631	1.65776	1.73087	2.34929	2.48066	2.54925
12.000	-2.00000	1932.51784	50.98654	563.96030	1.58149	1.67836	1.76258	2.36016	2.48762	2.57569
14.000	-2.00000	1931.30793	51.00635	564.17945	1.60330	1.69777	1.77062	2.35148	2.47178	2.55496
16.000	-2.00000	1932.10713	50.99056	564.00479	1.61868	1.70870	1.78639	2.37082	2.48771	2.56975
18.000	-2.00000	1931.43526	50.99784	564.08523	1.63770	1.72524	1.78631	2.34785	2.45991	2.54007
20.000	-2.00000	1931.86768	51.00587	564.17412	1.63960	1.72431	1.78461	2.34405	2.45209	2.53514
22.000	-2.00000	1932.01346	50.99929	564.10132	1.64600	1.72738	1.79010	2.34405	2.45209	2.53514
24.000	-2.00000	1931.72012	50.99929	564.10132	1.64600	1.72738	1.79010	2.34405	2.45209	2.53514
GRADIENT	0.00000	-1.38574	-0.03609	-39918	0.0427	0.0349	0.0262	-0.0191	-0.00341	-0.00496

GRADIENT

(FE7X04; (02 AUG 76.)

ARC 11-97-87-89+ 0A161 ORBITER + RAKES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = -2.000 ELEVON = .000.
AIRFOIL = .000 BOPEAR = -7.170

PARAMETRIC DATA

RN/L = 1.99 GRADIENT INTERVAL = -5.00' 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
3.500	.000	-2.00000	2608.07135	34.16512	520.74471	1.44575	1.62174	1.74221	2.33880	2.59095	2.76616
2.000	2.000	-2.00000	2609.47937	34.18432	521.03742	1.45852	1.63242	1.75534	2.35277	2.60189	2.78058
4.000	4.000	-2.00000	2610.52898	34.19798	521.24570	1.47420	1.64355	1.76128	2.36528	2.61562	2.79498
6.000	6.000	-2.00000	2614.11072	34.24500	521.96236	1.50277	1.66457	1.77623	2.39380	2.62476	2.78610
8.000	8.000	-2.00000	2614.27722	34.24722	521.99606	1.53983	1.68853	1.79501	2.42597	2.63733	2.79029
10.000	10.000	-2.00000	2619.19357	34.31230	522.38805	1.56327	1.71296	1.81519	2.45811	2.66209	2.80876
12.000	12.000	-2.00000	2615.71823	34.26563	522.27669	1.58752	1.73324	1.83142	2.47649	2.66819	2.80804
14.000	14.000	-2.00000	2617.89397	34.29432	522.71407	1.62481	1.75449	1.84974	2.50601	2.68897	2.81940
16.000	16.000	-2.00000	2615.78174	34.26626	522.28640	1.63847	1.76468	1.84974	2.47234	2.64729	2.76600
18.000	18.000	-2.00000	2617.10403	34.28431	522.56139	1.65726	1.77773	1.86002	2.47026	2.63580	2.74958
20.000	20.000	-2.00000	2615.61575	34.26406	522.25275	1.67725	1.79477	1.87601	2.49323	2.65468	2.76694
22.000	22.000	-2.00000	2619.49899	34.31592	523.04321	1.67709	1.79087	1.87201	2.47346	2.63601	2.74666
24.000	24.000	-2.00000	2624.04565	34.37497	523.94328	1.68200	1.79173	1.87892	2.46808	2.61716	2.73629
GRADIENT		.00000	.61442	.00822	.12524	.00711	.00545	.00477	.00162	-.00133	-.00279

ORIGINAL PAGE IS
OF POOR QUALITY

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7X05) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.6800 IN.
SCALE = .0300

BETA = .000
ALLRGN = .000
ELEVON = .000
BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M52	M44	M54	M54
500	.000	.00000	2636.13434	2067.16983	568.96451	.58152	.58152	.58152	.58152	.58152	.58152
2.000	.000	.00000	2636.45282	2067.42532	569.02750	.57980	.57980	.57980	.57980	.57980	.57980
4.000	.000	.00000	2638.36844	2068.84036	569.52898	.58243	.58195	.58155	.58029	.58029	.58029
6.000	.000	.00000	2635.83572	2067.04514	568.79059	.58066	.58043	.58009	.584325	.584325	.584325
8.000	.000	.00000	2635.20016	2067.24875	568.95142	.58400	.58429	.58437	.584460	.584460	.584460
10.000	.000	.00000	2635.93494	2067.10458	568.83035	.58789	.58850	.58815	.584244	.584244	.584244
12.000	.000	.00000	2635.46613	2066.78952	568.67661	.59401	.59401	.59319	.584410	.584410	.584410
14.000	.000	.00000	2636.11768	2067.19876	568.91891	.60234	.60247	.60206	.584767	.584767	.584767
16.000	.000	.00000	2636.08533	2067.16296	568.92236	.61483	.61485	.61437	.65179	.65179	.65179
18.000	.000	.00000	2638.61063	2068.99408	569.61655	.62870	.62876	.62830	.65773	.65773	.65773
20.000	.000	.00000	2634.47891	2066.12332	568.35559	.63838	.63870	.63933	.66162	.66162	.66162
22.000	.000	.00000	2630.10681	2062.54417	567.55254	.64972	.65120	.65207	.66623	.66623	.66623
24.000	.000	.00000	2629.67941	2061.72964	567.94977	.66407	.66743	.66778	.67186	.67186	.67186
GRADIENT		.00000	.55853	.41762	.14089	.00024	.00004	.00007	.00080	.00106	.00109

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M52	M44	M54	M54
900	.000	.00000	2113.98108	1249.92923	864.05188	.78837	.78836	.78804	.93648	.93645	.93617
2.000	.000	.00000	2112.05286	1248.77386	863.27899	.78028	.78058	.77991	.92455	.92422	.92422
4.000	.000	.00000	2118.18839	1252.35219	865.83621	.78594	.78603	.78591	.91917	.91914	.91914
6.000	.000	.00000	2114.64374	1250.29912	854.34464	.78515	.78530	.78518	.90678	.90682	.90681
8.000	.000	.00000	2110.03122	1247.57364	862.45758	.78571	.78716	.78720	.89672	.89712	.89716
10.000	.000	.00000	2112.73351	1249.11789	863.61572	.79500	.79512	.79480	.89393	.89406	.89376
12.000	.000	.00000	2114.69836	1250.25999	864.43838	.80616	.80602	.80616	.89683	.89670	.89683
14.000	.000	.00000	2117.13947	1251.72624	865.41324	.81880	.81887	.81898	.89791	.89797	.89800
16.000	.000	.00000	2116.02139	1251.05811	864.96329	.82997	.83030	.83018	.89596	.89628	.89616
18.000	.000	.00000	2113.29510	1249.47339	863.82172	.84463	.84531	.84532	.89942	.90007	.90007
20.000	.000	.00000	2111.35150	1248.25399	863.10052	.86378	.86465	.86444	.90651	.90736	.90715
22.000	.000	.00000	2110.78241	1247.85742	862.92499	.88500	.88624	.88659	.91516	.91637	.91672
24.000	.000	.00000	2113.14288	1249.38358	863.75931	.90555	.90819	.90886	.92276	.92535	.92602
GRADIENT		.00000	1.05184	.60574	.44609	.00061	.00058	.00053	.00432	.00430	.00426

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES.

REFERENCE DATA

XSREF	=	2690.0000	SQ.FT.	YMRP	=	1076.6800	IN.	X0
REF	=	474.8000	IN.	YMRP	=	.0000	IN.	Y0
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	Z0
SCALE	=	.0300						

PN/L = 4 27 GRADIENT INTERVAL = -5.00' 5.00'

MACH. = 1.200
ALPHA

	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M54
1.200										
ALPHA										
0.000	2003.78401	828.63679	1166.30751		91650	91628	.91612	1.09452	1.09432	1.09418
0.000	2006.93002	827.95351	1165.30481		92105	92150	.92115	1.09695	1.09737	1.09705
2.000	2006.95342	827.74990	1165.05822		92243	92281	.92287	1.07783	1.07818	1.07853
4.000	2012.21327	829.46896	1167.47879		93061	93061	.93103	1.07939	1.07998	1.08035
6.000	2011.68602	829.32592	1167.27747		93590	93629	.93710	1.08324	1.08361	1.08435
8.000	2000.20112	829.42208	1167.41281		94281	94301	.94356	1.10969	1.10987	1.11030
10.000	2012.05740	829.63939	1167.71857		95360	95377	.95385	1.12985	1.13008	1.13088
12.000	2012.78561	829.63245	1167.79337		96453	96453	.96447	1.13196	1.13191	1.13197
14.000	2012.78561	829.63245	1167.79337		96453	96453	.96447	1.13196	1.13191	1.13197
16.000	2011.04118	829.14474	1167.02246		97968	97967	.97960	1.13940	1.13929	1.13932
18.000	2012.20630	829.51370	1167.54176		99862	99882	.99899	1.14695	1.14714	1.14730
20.000	2018.50417	831.53033	1170.38017		1.01449	1.01475	.011475	1.15085	1.15111	1.15164
22.000	2017.94955	831.40863	1170.20888		1.02945	1.02941	.02987	1.15521	1.15517	1.15562
24.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
26.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
28.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
30.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
32.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
34.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
36.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
38.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
40.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
42.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
44.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
46.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
48.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
50.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
52.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
54.000	2014.63448	830.32520	1168.68396		1.04164	1.04216	.04223	1.16539	1.16590	1.16597
56.000	2014.63448	830.32520	1168.68396							

PN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400
ALPHA

ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M44	M54	M54	M54
1.400	0.0000	2043.25790	642.23148	1316.08347	1.01369	1.01712	1.02865	1.28315	1.28315	1.28315	1.28315
0.000	0.0000	2048.25000	643.57806	1318.84294	1.02776	1.03263	1.02705	1.28115	1.28369	1.28741	1.29165
2.000	0.0000	2048.53619	643.02779	1317.71530	1.02773	1.02792	1.03223	1.27552	1.27570	1.28000	1.28000
4.000	0.0000	2050.69442	640.56650	1312.67154	1.04201	1.04321	1.04796	1.26885	1.27004	1.27535	1.27535
6.000	0.0000	2036.48167	640.59681	1312.71315	1.05264	1.05507	1.05901	1.27271	1.27125	1.27125	1.27600
8.000	0.0000	2037.06580	640.77697	1313.10285	1.06233	1.06371	1.06709	1.27743	1.27515	1.27911	1.27911
10.000	0.0000	2032.87712	639.62427	1310.74063	1.07483	1.07504	1.07896	1.28021	1.28041	1.28223	1.28223
12.000	0.0000	2034.53185	640.07636	1311.66714	1.08332	1.08592	1.09011	1.27914	1.28178	1.28435	1.28435
14.000	0.0000	2038.71129	641.14881	1313.86434	1.08863	1.09291	1.09667	1.27914	1.28422	1.28624	1.28624
16.000	0.0000	2034.88971	640.10445	1311.72463	1.09940	1.10359	1.10716	1.28242	1.28832	1.29216	1.29216
18.000	0.0000	2029.02078	638.64844	1308.74098	1.11406	1.11924	1.12552	1.29504	1.30034	1.30370	1.30370
20.000	0.0000	2029.79141	638.90320	1309.26305	1.12066	1.12617	1.12941	1.30352	1.30918	1.31251	1.31251
22.000	0.0000	2028.79141	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
24.000	0.0000	2028.99665	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
26.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
28.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
30.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
32.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
34.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
36.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
38.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
40.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
42.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551	1.03551
44.000	0.0000	2028.77728	638.46732	1308.56984	1.03551	1.03551					

ARC 11-97-87-09# 04161 ORBITER + RAKES

(FE7X05) (02 AUG 75)

REFERENCE DATA

SREF = 2698.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M44	M54	M54
1.550	.0000	.0000	1580.54596	401.10618	1045.16287	1.02974	1.09684	1.10382	1.42805	1.43561	1.44307
2.000	.0000	.0000	1581.96228	401.46997	1046.11082	1.09575	1.10265	1.10442	1.42408	1.43143	1.43759
4.000	.0000	.0000	1581.60306	401.36976	1045.84969	1.10252	1.10874	1.11458	1.41796	1.42456	1.43078
6.000	.0000	.0000	1581.71835	401.39528	1045.91879	1.11004	1.11601	1.12129	1.41556	1.42191	1.42753
8.000	.0000	.0000	1582.28792	401.54744	1046.31267	1.11980	1.12529	1.13067	1.41594	1.42177	1.42751
10.000	.0000	.0000	1584.01578	401.96475	1047.40035	1.12885	1.13276	1.13825	1.41474	1.41989	1.42474
12.000	.0000	.0000	1584.74577	402.14309	1047.86478	1.13074	1.13785	1.14424	1.41442	1.41942	1.42422
14.000	.0000	.0000	1584.30254	402.03269	1047.57710	1.14238	1.14732	1.15251	1.41394	1.41865	1.42332
16.000	.0000	.0000	1584.53708	402.09357	1047.73572	1.15471	1.15920	1.16222	1.41070	1.41439	1.41766
18.000	.0000	.0000	1585.24020	402.26379	1048.17926	1.15987	1.16459	1.16933	1.41065	1.41556	1.42032
20.000	.0000	.0000	1585.26917	402.27295	1048.20312	1.16524	1.17142	1.17811	1.41340	1.41997	1.42708
22.000	.0000	.0000	1584.67165	402.12355	1047.81394	1.17438	1.18176	1.18776	1.41839	1.42623	1.43262
24.000	.0000	.0000	1584.25276	402.01530	1047.53178	1.18873	1.19587	1.20086	1.42247	1.43085	1.43537
GRADIENT			.26428	.06590	.17171	.00320	.00298	.00269	-.00252	-.00276	-.00307

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M44	M54	M54
1.750	.0000	.0000	1657.74608	311.37225	1072.15997	1.14576	1.16100	1.17453	1.52111	1.53799	1.55306
2.000	.0000	.0000	1657.99976	311.41864	1072.31978	1.15568	1.17163	1.18453	1.51644	1.53406	1.54839
4.000	.0000	.0000	1657.20947	311.27179	1071.81404	1.16145	1.17611	1.18861	1.51566	1.53484	1.54939
6.000	.0000	.0000	1656.47336	311.13422	1071.34035	1.16620	1.18014	1.19134	1.51668	1.53207	1.54443
8.000	.0000	.0000	1657.27676	311.28436	1071.85733	1.17402	1.18770	1.19853	1.51493	1.53001	1.54199
10.000	.0000	.0000	1657.32759	311.29292	1071.88681	1.18306	1.19443	1.20521	1.51316	1.52567	1.53757
12.000	.0000	.0000	1656.50383	311.14008	1071.36053	1.19211	1.20741	1.21938	1.50494	1.52171	1.53489
14.000	.0000	.0000	1657.07622	311.24621	1071.72598	1.20379	1.21428	1.22418	1.51586	1.52739	1.53828
16.000	.0000	.0000	1656.60486	311.15869	1071.42461	1.21410	1.22226	1.23120	1.52141	1.53037	1.54021
18.000	.0000	.0000	1656.32849	311.10677	1071.24582	1.22389	1.23486	1.24434	1.52776	1.53776	1.54816
20.000	.0000	.0000	1656.80373	311.19482	1071.54903	1.23740	1.25173	1.26165	1.5254	1.53418	1.54303
22.000	.0000	.0000	1657.27647	311.28266	1071.85149	1.24196	1.25745	1.26772	1.51571	1.52463	1.53386
24.000	.0000	.0000	1657.16254	311.26139	1071.77823	1.24867	1.26338	1.27388	1.52029	1.52935	1.53874
GRADIENT			-.13413	-.02512	-.08649	.00382	.00378	.00357	-.00136	-.00154	-.00178

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(F77051 (02 AUG 76)

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
2.000	.0000	.0000	1847.14075	235.84824	1094.43971	1.23623	1.26805	1.23322	1.68279	1.72002	1.74969
2.000	.0000	.0000	1846.77534	235.80064	1094.21681	1.24379	1.27609	1.30052	1.68313	1.72087	1.74959
4.000	.0000	.0000	1847.06482	235.83535	1094.37987	1.25362	1.28423	1.30980	1.68039	1.71603	1.74599
6.000	.0000	.0000	1846.70287	235.79072	1094.17278	1.26314	1.29343	1.31648	1.68346	1.71862	1.74566
8.000	.0000	.0000	1846.84723	235.80916	1094.25836	1.27028	1.29859	1.32058	1.68561	1.71850	1.74430
10.000	.0000	.0000	1847.73077	235.93651	1094.84930	1.28484	1.31123	1.33184	1.68833	1.71869	1.74288
12.000	.0000	.0000	1847.06197	235.84271	1094.41403	1.29166	1.31926	1.33876	1.68541	1.71829	1.74292
14.000	.0000	.0000	1846.76268	235.79962	1094.21408	1.30657	1.32800	1.35173	1.69477	1.72581	1.74599
16.000	.0000	.0000	1846.78920	235.81072	1094.26558	1.31775	1.33767	1.35510	1.70281	1.73105	1.74997
18.000	.0000	.0000	1846.62433	235.78563	1094.14117	1.32783	1.34929	1.36364	1.70633	1.73105	1.74997
20.000	.0000	.0000	1846.86009	235.81953	1094.30619	1.33679	1.35932	1.37741	1.70633	1.72756	1.74808
22.000	.0000	.0000	1846.82697	235.81627	1094.29134	1.34469	1.37023	1.38568	1.69527	1.72445	1.74546
24.000	.0000	.0000	1845.84973	235.68645	1093.68892	1.35910	1.38541	1.40301	1.69740	1.72731	1.74739
GRADIENT			-0.01898	-0.0322	-0.01495	.00435	.00404	.00415	-0.00650	-0.00700	-0.00952

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
2.250	.0000	.0000	2059.62274	178.13523	1069.13588	1.32204	1.37898	1.41375	1.85482	1.92483	1.97047
2.000	.0000	.0000	2059.69022	178.14101	1069.17059	1.32776	1.38315	1.42322	1.84935	1.91967	1.96698
4.000	.0000	.0000	2059.24142	178.10249	1068.93941	1.33740	1.38958	1.42913	1.85257	1.91636	1.96507
6.000	.0000	.0000	2059.67895	178.13995	1069.16425	1.34783	1.39811	1.43509	1.85834	1.91974	1.96519
8.000	.0000	.0000	2059.63947	178.13654	1069.14375	1.35845	1.40816	1.44133	1.85591	1.91633	1.96592
10.000	.0000	.0000	2058.11798	178.09175	1068.87997	1.37253	1.41855	1.44981	1.86366	1.91972	1.95791
12.000	.0000	.0000	2058.74341	178.05961	1068.68224	1.38195	1.42489	1.45399	1.87190	1.92397	1.95945
14.000	.0000	.0000	2059.55093	178.12881	1069.09737	1.39480	1.43392	1.46194	1.87807	1.92530	1.95949
16.000	.0000	.0000	2059.35732	178.11318	1069.00757	1.40854	1.44398	1.47031	1.87583	1.91919	1.95331
18.000	.0000	.0000	2058.83990	178.06788	1068.73170	1.42414	1.46002	1.48508	1.87395	1.92224	1.95238
20.000	.0000	.0000	2059.20343	178.09903	1068.91862	1.42508	1.46143	1.48760	1.85522	1.89834	1.92936
22.000	.0000	.0000	2058.94348	178.07670	1068.78462	1.45280	1.50014	1.52724	1.91763	1.96244	1.95493
24.000	.0000	.0000	2058.84312	178.06998	1068.73825	1.46280	1.50533	1.54124	1.66374	1.70615	1.73660
GRADIENT			-0.09532	-0.00818	-0.04911	.00384	.00265	.00334	-0.00556	-0.0212	-0.0135

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(F7X05J (02 AUG 75)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YQ
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
2.500	.000	.00000	1495.02940	87.42978	658.00839	1.36012	1.44090	1.49284	1.96733	2.07022	2.13705
2.000	.000	.00000	1495.07198	87.43218	658.02643	1.36574	1.44429	1.49506	1.96174	2.05085	2.11568
4.000	.000	.00000	1494.35016	87.38912	657.70238	1.37314	1.44881	1.50264	1.96152	2.05721	2.12592
6.000	.000	.00000	1494.94664	87.42504	657.97271	1.38590	1.46141	1.51276	1.96535	2.06055	2.12886
8.000	.000	.00000	1495.11034	87.43490	658.04689	1.40073	1.47189	1.51900	1.97847	2.06828	2.12799
10.000	.000	.00000	1494.33299	87.38847	657.69749	1.41375	1.47925	1.52508	1.98328	2.05558	2.12420
12.000	.000	.00000	1494.98853	87.42791	657.99431	1.43359	1.49664	1.53836	1.99273	2.07166	2.12487
14.000	.000	.00000	1494.32796	87.38815	657.69506	1.45236	1.51029	1.54805	2.00521	2.07409	2.11683
16.000	.000	.00000	1494.89259	87.42212	657.95069	1.46254	1.51641	1.55059	2.00722	2.07274	2.11431
18.000	.000	.00000	1494.35973	87.39025	657.71090	1.47825	1.52977	1.56319	2.00695	2.07908	2.12234
20.000	.000	.00000	1494.85466	87.41989	657.93397	1.48980	1.53839	1.57322	2.01895	2.06798	2.11302
22.000	.000	.00000	1494.36290	87.39047	657.71252	1.49413	1.54146	1.57791	2.00972	2.07234	2.11876
24.000	.000	.00000	1494.88579	87.42173	657.94775	1.51035	1.56694	1.59467	2.01524	2.07325	2.11876
GRADIENT		.00000	-1.16982	-0.01016	-0.07650	.00326	.00198	.00245	-.00145	-.00325	-.00278

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
3.000	.000	.00000	1940.57863	51.17667	566.06326	1.42054	1.55321	1.63652	2.19022	2.37130	2.48643
2.000	.000	.00000	1940.33086	51.16886	565.97688	1.43111	1.56038	1.64718	2.20323	2.37977	2.49978
4.000	.000	.00000	1939.42018	51.14571	565.72091	1.43388	1.56922	1.65539	2.20816	2.37877	2.49731
6.000	.000	.00000	1939.65381	51.15674	565.84290	1.46359	1.58658	1.68737	2.22257	2.38959	2.50247
8.000	.000	.00000	1938.91023	51.13770	565.63232	1.48471	1.59705	1.67874	2.22586	2.37226	2.47748
10.000	.000	.00000	1939.74450	51.16337	565.88266	1.50552	1.61182	1.68285	2.23441	2.37690	2.47290
12.000	.000	.00000	1939.09339	51.14639	565.72841	1.53498	1.63612	1.70347	2.25669	2.39395	2.48049
14.000	.000	.00000	1939.37943	51.15133	565.79307	1.55511	1.65352	1.71348	2.26169	2.41327	2.49396
16.000	.000	.00000	1938.79555	51.13905	565.63118	1.57481	1.66530	1.72367	2.26313	2.40946	2.48732
18.000	.000	.00000	1939.37152	51.15323	565.80401	1.58943	1.67448	1.73165	2.27377	2.38926	2.48483
20.000	.000	.00000	1939.61790	51.16009	565.87335	1.61006	1.68935	1.74795	2.27798	2.43220	2.47561
22.000	.000	.00000	1939.80849	51.15027	565.8356	1.62627	1.69331	1.74252	2.28565	2.35567	2.43329
24.000	.000	.00000	1939.35315	51.15332	565.94102	1.63963	1.71459	1.77775	2.28557	2.40639	2.48911
GRADIENT		.00000	-1.28561	-0.00774	-0.08559	.00584	.00400	.00470	.00448	.00197	.00272

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FETX05) 1 02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M52	M54	M54	M54
3.500	.000	.00000	2639.31985	34.57549	526.99953	1.44316	1.62028	1.73674	2.29333	2.54312	2.70920	
4.000	.000	.00000	2640.01666	34.58445	527.13617	1.44910	1.62258	1.74313	2.29314	2.53715	2.70920	
5.000	.000	.00000	2640.89995	34.59589	527.31037	1.47294	1.64272	1.75549	2.32344	2.56260	2.72499	
6.000	.000	.00000	2644.64435	34.64481	528.05621	1.48946	1.65210	1.76239	2.32998	2.56800	2.71457	
8.000	.000	.00000	2646.62357	34.67127	528.45053	1.53368	1.68523	1.78690	2.38155	2.59521	2.73787	
10.000	.000	.00000	2646.80231	34.57352	528.49625	1.55334	1.70663	.80277	2.41527	2.61699	2.75221	
12.000	.000	.00000	2647.36554	34.68095	528.60566	1.59410	1.72235	.80324	2.43393	2.63412	2.77295	
14.000	.000	.00000	2652.42508	34.74652	529.60644	1.61575	1.74672	.83003	2.45919	2.62119	2.73739	
16.000	.000	.00000	2653.07376	34.75490	529.73420	1.64489	1.76718	1.84890	2.45919	2.62742	2.74004	
18.000	.000	.00000	2650.25250	34.71834	529.18607	1.65053	1.76580	1.84595	2.42952	2.56006	2.69542	
20.000	.000	.00000	2650.25250	34.73560	529.43297	1.66957	1.77903	1.85177	2.44953	2.59799	2.71090	
22.000	.000	.00000	2651.57239	34.74832	529.53283	1.67468	.77784	1.86317	2.42944	2.55982	2.67355	
24.000	.000	.00000	2651.55234	34.74070	529.51771	1.67818	.78035	1.85895	2.41555	2.55197	2.67079	
GRADIENT		.00000	.39504	.00510	.07776	.00745	.00561	.00484	.00753	.00487	.00360	

REFERENCE DATA

=	2690.0000	SQ.FT.	XMRP	=	1076.6800	IN.	XO
=	474.8000	IN.	YMRP	=	.0000	IN.	YO
=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
=	.0300	SCALE					

BETA	=	2.000	ELEVON	=	.000
AILRON	=	.000	BDFLAP	=	-7.170

EN/1 = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	=	ALPHA	GRADIENT
		.600	
		.000	
		2.000	
		4.000	
		6.000	
		8.000	
		10.000	
		12.000	
		14.000	
		16.000	
		18.000	
		20.000	
		22.000	
		24.000	

M62	57311	65118	65134	65122	M64
	55937	63701	63730	63706	
	55760	63444	63495	63501	
	56696	63921	63939	63935	
	57121	63995	63958	63995	
	57571	63950	63925	63969	
	58154	63993	63977	63929	
	58942	63943	63974	63996	
	59937	64304	64325	64349	
	61076	64661	64665	64709	
	62509	65289	65334	65366	
	63863	65893	66034	66030	
	65189	66325	66612	66599	
	00388	00419	00409	00405	

PN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	=	.900
		ALPHA
		.000
		2.000
		4.000
		6.000
		8.000
		10.000
		12.000
		14.000
		16.000
		18.000
		20.000
		22.000
		24.000
		GRADIENT

[illegible]

(FETX06J (02 AUG 75)

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M54
1.200	.000	2.00000	2003.55424	828.76637	1166.48990	.88184	.88208	.88211	1.06638	1.06658	1.06662
2.000	2.000	2.00000	2008.90266	828.44971	1166.04420	.83022	.88034	.88106	1.06604	1.06615	1.06679
4.000	4.000	2.00000	2009.08081	828.45160	1166.04684	.83513	.88546	.88616	1.05785	1.05814	1.05878
6.000	6.000	2.00000	2012.49275	829.60759	1167.67390	.83110	.89160	.89162	1.04939	1.04984	1.04986
8.000	8.000	2.00000	2012.15788	829.57092	1167.62230	.83596	.89615	.89688	1.05783	1.05801	1.05866
10.000	10.000	2.00000	2011.92180	829.36008	1167.32553	.90303	.90314	.90365	1.08331	1.08341	1.08387
12.000	12.000	2.00000	2013.54626	829.94049	1168.14247	.91289	.91329	.91350	1.10199	1.10236	1.10255
14.000	14.000	2.00000	2015.19850	830.40101	1168.79065	.92551	.92574	.92574	1.10113	1.10148	1.10170
16.000	16.000	2.00000	2013.69295	829.94411	1168.14755	.93949	.93988	.94006	1.09994	1.10030	1.10047
18.000	18.000	2.00000	2013.23676	829.86232	1168.03244	.95607	.95671	.95699	1.10995	1.11055	1.11092
20.000	20.000	2.00000	2017.18069	830.97342	1169.59631	.97316	.97384	.97420	1.11783	1.11848	1.11882
22.000	22.000	2.00000	2019.10837	831.89906	1170.99917	.98747	.98816	.98970	1.12037	1.12103	1.12155
24.000	24.000	2.00000	2020.01411	832.02087	1171.07062	.99919	1.00057	1.00081	1.12830	1.12963	1.12986
GRADIENT		.00000	-1.11837	-0.07869	-1.11077	.00082	.00085	.00101	-0.00213	-0.00211	-0.00196

RN/L = 4.25 GRADIENT INTERVAL = -5.03/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M54
1.400	.000	2.00000	2044.20187	642.54803	1316.73218	.98921	.99258	.99743	1.26150	1.26487	1.26950
2.000	2.000	2.00000	2046.48984	643.12830	1317.92126	.98306	.99505	.99957	1.25802	1.25986	1.26436
4.000	4.000	2.00000	2041.44493	641.78365	1315.16579	1.00041	1.00060	1.00470	1.25100	1.25120	1.25519
6.000	6.000	2.00000	2044.57449	642.62668	1316.89333	1.00688	1.00796	1.01232	1.24693	1.24798	1.25226
8.000	8.000	2.00000	2040.79663	641.70628	1315.00722	1.01299	1.01390	1.01782	1.24416	1.24506	1.24691
10.000	10.000	2.00000	2035.77562	640.44118	1312.41475	1.02420	1.02564	1.02923	1.24826	1.24968	1.25323
12.000	12.000	2.00000	2036.94429	640.72521	1312.99680	1.03196	1.03412	1.03731	1.25011	1.25225	1.25542
14.000	14.000	2.00000	2039.66587	641.42471	1314.43022	1.04362	1.04463	1.04758	1.25096	1.25203	1.25492
16.000	16.000	2.00000	2039.80769	641.40276	1314.38322	1.05681	1.05747	1.06109	1.25358	1.25424	1.25786
18.000	18.000	2.00000	2039.32677	641.26414	1314.10118	1.06042	1.06276	1.06653	1.25130	1.25364	1.25742
20.000	20.000	2.00000	2033.81595	639.92600	1311.35932	1.06142	1.06515	1.06821	1.24849	1.25223	1.25530
22.000	22.000	2.00000	2023.58159	637.19749	1305.76765	1.06952	1.07380	1.07699	1.24490	1.25022	1.25443
24.000	24.000	2.00000	2021.60355	636.67937	1304.70592	1.07991	1.08315	1.08826	1.25983	1.26513	1.26827
GRADIENT		.00000	-5.8921	-1.9109	-3.9160	.00280	.00198	.00182	-0.00262	-0.00342	-0.00358

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7X06) (02 AUG 76)

REFERENCE DATA

SPEF = 2697.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BPEF = 935.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0302

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 AILRON = .000 BOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
.000	2.00000	1558.49995	1036.97801	397.96504	1.04856	1.05355	1.05995	1.06607	1.36990	1.37712	1.38357
2.000	2.00000	1570.76030	1038.46596	398.53608	1.05326	1.06015	1.06607	1.07324	1.36489	1.37199	1.37815
4.000	2.00000	1572.20036	1039.32613	398.85619	1.06121	1.06801	1.07324	1.07957	1.35667	1.36271	1.36885
6.000	2.00000	1572.37077	1039.43916	399.90057	1.06996	1.07724	1.08385	1.09018	1.35903	1.36558	1.37137
8.000	2.00000	1573.70795	1040.33282	399.29253	1.07957	1.08564	1.09188	1.09837	1.35930	1.36580	1.37032
10.000	2.00000	1573.65640	1040.31351	399.24512	1.08873	1.09416	1.09837	1.10300	1.36100	1.36654	1.37103
12.000	2.00000	1572.64693	1039.63991	399.98661	1.09684	1.10141	1.10562	1.10983	1.36039	1.36514	1.36954
14.000	2.00000	1572.69780	1039.67572	399.00035	1.10300	1.10765	1.11286	1.11899	1.35602	1.36086	1.36629
16.000	2.00000	1572.12041	1039.27986	398.84843	1.11010	1.11391	1.11899	1.12404	1.35900	1.36299	1.36828
18.000	2.00000	1571.97598	1039.19070	399.81422	1.11879	1.12211	1.12640	1.13091	1.35127	1.35475	1.35923
20.000	2.00000	1574.13762	1040.62433	399.36440	1.12556	1.12902	1.13397	1.13951	1.34492	1.34854	1.35371
22.000	2.00000	1576.42464	1042.11156	399.93516	1.13163	1.13516	1.13951	1.14350	1.37120	1.37489	1.37946
24.000	2.00000	1576.99855	1042.49895	400.08383	1.14154	1.14504	1.14900	1.15385	1.38185	1.38553	1.38965
GRADIENT	.00000	.92511	.58703	.22529	.00364	.00359	.00332	.00332	-.00106	-.00110	-.00138

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
.000	2.00000	1558.77100	1071.52611	311.18917	1.11164	1.12647	1.13816	1.14388	1.48535	1.50155	1.51438
2.000	2.00000	1555.31691	1070.59709	310.91837	1.11771	1.13247	1.14388	1.15148	1.48571	1.50183	1.51435
4.000	2.00000	1555.46957	1070.59418	310.94556	1.12512	1.14050	1.15148	1.15534	1.48227	1.49506	1.51111
6.000	2.00000	1555.59386	1070.77524	310.97010	1.13045	1.14428	1.15534	1.16140	1.47973	1.49480	1.50693
8.000	2.00000	1556.17558	1071.14615	311.07782	1.13710	1.15103	1.16140	1.17195	1.48053	1.49571	1.50707
10.000	2.00000	1556.23152	1071.18300	311.08852	1.15009	1.16010	1.17195	1.18222	1.48194	1.49285	1.50581
12.000	2.00000	1556.29276	1071.22061	311.09945	1.16206	1.17183	1.18222	1.19304	1.47936	1.49000	1.50224
14.000	2.00000	1556.36481	1071.26796	311.11320	1.17216	1.18248	1.19304	1.20263	1.47337	1.48456	1.49506
16.000	2.00000	1556.43930	1070.81123	310.99256	1.18651	1.19447	1.20263	1.21319	1.47581	1.48444	1.49330
18.000	2.00000	1556.52505	1071.11641	311.06919	1.19378	1.20153	1.20855	1.21319	1.47823	1.48664	1.49426
20.000	2.00000	1556.59803	1071.28888	311.11927	1.19697	1.20504	1.21319	1.22414	1.47956	1.48831	1.49717
22.000	2.00000	1556.98810	1071.02734	311.04332	1.20498	1.21619	1.22414	1.23651	1.47630	1.48441	1.49705
24.000	2.00000	1556.65131	1070.81276	310.98100	1.21514	1.22905	1.23651	1.24651	1.48151	1.48657	1.50466
GRADIENT	.00000	-.32560	-.20798	-.06040	.00337	.00351	.00333	.00333	-.00077	-.00062	-.00082

(FE7X06) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M44	M54	M64
2.000	.000	2.00000	1845.98238	235.71697	1093.83054	1.20725	1.25865	1.63917	1.67663	1.70369
2.000	2.000	2.00000	1845.69019	235.68356	1093.67549	1.21445	1.24513	1.63902	1.67444	1.70077
4.000	4.000	2.00000	1844.79626	235.56110	1093.10722	1.22361	1.25512	1.63678	1.67307	1.69679
6.000	6.000	2.00000	1844.08850	235.46556	1092.66437	1.23569	1.26367	1.64091	1.67309	1.69809
8.000	8.000	2.00000	1845.05612	235.59471	1093.26320	1.24015	1.26683	1.63990	1.67053	1.69485
10.000	10.000	2.00000	1845.94762	235.71702	1093.83081	1.25330	1.27997	1.63646	1.66695	1.69499
12.000	12.000	2.00000	1845.36353	235.63626	1093.45602	1.26356	1.28500	1.64794	1.67249	1.69320
14.000	14.000	2.00000	1845.05315	235.72144	1093.85130	1.26964	1.28519	1.64811	1.67335	1.69785
16.000	16.000	2.00000	1845.19932	235.73932	1093.93427	1.28330	1.30410	1.65465	1.67841	1.69648
18.000	18.000	2.00000	1845.63759	235.79776	1094.20544	1.30207	1.32026	1.65689	1.68766	1.70349
20.000	20.000	2.00000	1847.25093	235.86923	1094.62527	1.31287	1.33086	1.66198	1.68242	1.70349
22.000	22.000	2.00000	1847.20595	235.88139	1094.59354	1.31659	1.33689	1.64612	1.67128	1.68894
24.000	24.000	2.00000	1846.34912	235.77158	1094.08394	1.32950	1.35329	1.65236	1.67918	1.68711
GRADIENT						.00409	.00387	-.00060	-.00089	-.00122

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M44	M54	M64
2.250	.000	2.00000	2059.21463	178.10006	1068.92479	1.23669	1.32451	1.76821	1.83158	1.87325
2.000	2.000	2.00000	2059.05692	178.08647	1068.84325	1.24248	1.32969	1.75773	1.82342	1.86360
4.000	4.000	2.00000	2059.38257	178.11435	1069.01056	1.25820	1.33753	1.75685	1.81625	1.85897
6.000	6.000	2.00000	2059.19321	178.09820	1069.91364	1.26719	1.31502	1.76035	1.81781	1.85820
8.000	8.000	2.00000	2059.07995	178.08239	1068.85469	1.28677	1.32474	1.76024	1.81393	1.85180
10.000	10.000	2.00000	2059.48204	178.12256	1069.05983	1.28965	1.35094	1.76408	1.81658	1.84352
12.000	12.000	2.00000	2059.67632	178.04732	1068.62146	1.30500	1.37353	1.77340	1.82287	1.84222
14.000	14.000	2.00000	2059.07443	178.08793	1068.85205	1.31358	1.35194	1.77652	1.81985	1.85170
16.000	16.000	2.00000	2058.61588	178.04855	1068.61566	1.33325	1.39171	1.78106	1.82153	1.85060
18.000	18.000	2.00000	2058.53250	178.04135	1068.57248	1.34364	1.36733	1.78067	1.81850	1.84722
20.000	20.000	2.00000	2058.52417	178.04055	1068.56763	1.35543	1.41123	1.78553	1.82017	1.85153
22.000	22.000	2.00000	2058.59705	178.04666	1068.60429	1.35016	1.40945	1.75331	1.79166	1.82267
24.000	24.000	2.00000	2058.37756	178.02781	1068.49115	1.40867	1.47001	1.84771	1.89148	1.92679
GRADIENT						.00357	.00296	-.00259	-.00383	-.00357

TABULATED DATA - OAI61 (ARC 11-97-87-094)

ARC 11-97-87-094 OAI61 ORBITER + RAKES.

(FE7X06) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6880 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.178

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
2.500	.000	2.00000	1487.32057	86.97802	654.60834	1.31853	1.39938	1.44772	1.91779	2.02015	2.08204
2.000	2.000	2.00000	1487.99101	87.01835	654.91200	1.31709	1.39452	1.44069	1.90395	2.00144	2.06018
4.000	4.000	2.00000	1487.96725	87.01707	654.90228	1.32803	1.40443	1.45341	1.89962	1.97530	2.05727
6.000	6.000	2.00000	1487.96211	87.01569	654.89940	1.34441	1.41836	1.46526	1.93593	1.99326	2.05737
8.000	8.000	2.00000	1487.95708	87.01553	654.89824	1.36184	1.43052	1.47277	1.93885	1.99429	2.04708
10.000	10.000	2.00000	1487.91705	87.01443	654.88242	1.37947	1.44506	1.48439	1.92806	2.00966	2.05834
12.000	12.000	2.00000	1487.93314	87.01538	654.88956	1.39301	1.45362	1.48990	1.92109	1.93590	2.04097
14.000	14.000	2.00000	1487.92639	87.01483	654.88538	1.40665	1.46075	1.49705	1.93131	1.99800	2.04639
16.000	16.000	2.00000	1487.94725	87.01604	654.89458	1.41962	1.46834	1.50435	1.94178	2.00180	2.03823
18.000	18.000	2.00000	1487.92914	87.01502	654.88682	1.42710	1.47410	1.51111	1.93509	1.99266	2.03633
20.000	20.000	2.00000	1487.96275	87.01727	654.90379	1.44373	1.48824	1.52460	1.93757	1.99181	2.03713
22.000	22.000	2.00000	1487.95438	87.01694	654.90131	1.46551	1.50971	1.54526	1.94044	1.99394	2.04062
24.000	24.000	2.00000	1487.98357	87.01867	654.91432	1.48296	1.52842	1.56466	1.94217	1.99585	2.04062
GRADIENT		.00000	.16166	.00976	.07349	.00238	.00126	.00142	-.00454	-.00621	-.00619

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
3.000	.000	2.00000	1939.15904	51.12361	565.47639	1.41690	1.54851	1.62349	2.15290	2.33019	2.43242
2.000	2.000	2.00000	1940.13321	51.14938	565.76151	1.42360	1.55295	1.63156	2.15880	2.33297	2.44009
4.000	4.000	2.00000	1939.45256	51.13434	565.59507	1.42807	1.55533	1.63220	2.13983	2.30963	2.41336
6.000	6.000	2.00000	1939.50589	51.13526	565.63524	1.44914	1.57149	1.64375	2.15471	2.31732	2.41457
8.000	8.000	2.00000	1939.64354	51.14013	565.65913	1.49309	1.60628	1.67358	2.17743	2.32671	2.41619
10.000	10.000	2.00000	1937.17825	51.07750	564.56639	1.49078	1.59811	1.66180	2.18096	2.32278	2.40762
12.000	12.000	2.00000	1938.09135	51.10284	565.24563	1.51531	1.61417	1.67546	2.20831	2.33897	2.42057
14.000	14.000	2.00000	1937.60145	51.08700	565.07146	1.54055	1.63046	1.69070	2.22434	2.34264	2.42241
16.000	16.000	2.00000	1938.56842	51.13221	565.57153	1.55251	1.63434	1.69520	2.22451	2.32500	2.40495
18.000	18.000	2.00000	1938.54479	51.11276	565.35637	1.57152	1.64818	1.70820	2.22451	2.32407	2.40245
20.000	20.000	2.00000	1938.72614	51.12192	565.45771	1.58785	1.66216	1.72219	2.22426	2.32011	2.39794
22.000	22.000	2.00000	1938.94317	51.12888	565.53468	1.59784	1.67096	1.73147	2.21692	2.31060	2.38650
24.000	24.000	2.00000	1938.90468	51.12835	565.52891	1.60634	1.68014	1.74168	2.20127	2.29494	2.37341
GRADIENT		.00000	.07343	.00268	.02967	.00279	.00171	.00218	-.00327	-.00514	-.00476

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500

ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
.000	2.00000	2667.88812	34.95021	532.71109	1.44240	1.61806	1.72078	2.27904	2.52550	2.67157
2.000	2.00000	2667.98584	34.95149	532.73055	1.45044	1.62288	1.72774	2.29274	2.53482	2.68453
4.000	2.00000	2667.55579	34.94600	532.64699	1.46527	1.63480	1.73678	2.29452	2.53000	2.67434
6.000	2.00000	2668.66705	34.96039	532.86630	1.48634	1.65294	1.75087	2.31081	2.54813	2.68656
8.000	2.00000	2668.83286	34.96260	532.89992	1.50927	1.66691	1.75771	2.31935	2.55918	2.68637
10.000	2.00000	2667.49628	34.94465	532.62630	1.54011	1.69242	1.76883	2.34229	2.53844	2.65866
12.000	2.00000	2669.69775	34.97392	533.07244	1.56664	1.69820	1.78337	2.35535	2.53560	2.65309
14.000	2.00000	2668.86501	34.96312	532.90790	1.59680	1.71080	1.79813	2.37335	2.53916	2.65927
16.000	2.00000	2659.65951	34.97344	533.06512	1.61813	1.72953	1.81458	2.39239	2.54364	2.65989
18.000	2.00000	2668.67300	34.96078	532.87227	1.63967	1.74387	1.82648	2.39159	2.53174	2.64361
20.000	2.00000	2670.18805	34.98034	533.17038	1.64390	1.74496	1.82717	2.37402	2.50883	2.61914
22.000	2.00000	2668.19308	34.95369	532.76417	1.65283	1.75332	1.83958	2.35532	2.49877	2.60248
24.000	2.00000	2670.01153	34.97799	533.13458	1.65271	1.75331	1.84052	2.34053	2.47340	2.58776
GRADIENT	.00000	-.08307	-.00105	-.01603	.00597	.00418	.00400	.00387	.00113	.00067

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FE7X07) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.170

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
.500	.000	5.00000	2624.00095	2057.68289	566.31805	54485	54485	54485	53612	63591	63596
2.000	.000	5.00000	2623.93231	2057.61972	566.31259	53814	53814	53814	62618	62614	62617
4.000	.000	5.00000	2624.85635	2058.36877	566.48758	53440	53440	53440	62429	62464	62509
6.000	.000	5.00000	2627.65573	2060.37476	567.28098	54025	54025	54025	62515	62522	62529
8.000	.000	5.00000	2625.01135	2058.40189	566.60947	54122	54122	54122	62007	62011	62018
10.000	.000	5.00000	2625.86369	2059.00568	566.85800	54439	54439	54439	61997	62012	62026
12.000	.000	5.00000	2624.17407	2057.86670	566.30737	55138	55138	55138	61930	61932	61936
14.000	.000	5.00000	2624.35069	2058.02087	566.33981	56086	56086	56086	62412	62455	62429
16.000	.000	5.00000	2624.72936	2058.21182	566.51654	57017	57017	57017	62675	62694	62693
18.000	.000	5.00000	2627.18732	2059.96523	567.20209	58247	58247	58247	62932	62955	62971
20.000	.000	5.00000	2627.48154	2060.22818	567.25336	59843	59843	59843	63629	63653	63696
22.000	.000	5.00000	2625.04254	2058.51157	566.53098	61177	61177	61177	64202	64289	64359
24.000	.000	5.00000	2625.30152	2059.18518	566.72034	62358	62358	62358	64544	64623	64670
GRADIENT		.00000	.21387	.17145	.04238	-.00277	-.00261	-.00248	-.00296	-.00282	-.00270

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
.500	.000	5.00000	2111.48715	1248.50783	862.97934	70777	70758	70727	89294	89278	89252
2.000	.000	5.00000	2115.43283	1250.78174	864.65109	70746	70747	70744	88503	88505	88502
4.000	.000	5.00000	2117.10138	1251.73029	865.37109	70716	70756	70723	87335	87368	87341
6.000	.000	5.00000	2114.79214	1250.37328	864.41888	70704	70678	70679	86429	86407	86407
8.000	.000	5.00000	2109.88957	1247.40534	862.56323	70889	70875	70916	85556	85544	85579
10.000	.000	5.00000	2116.56833	1251.47731	865.09103	71930	71952	71960	85197	85217	85224
12.000	.000	5.00000	2116.71036	1251.56195	865.14841	72789	72787	72773	84798	84797	84795
14.000	.000	5.00000	2112.28325	1248.93517	863.37808	73756	73765	73766	84669	84677	84678
16.000	.000	5.00000	2114.90225	1250.43449	864.47287	75021	75067	75080	84847	84839	84831
18.000	.000	5.00000	2115.67448	1250.94667	864.80880	76372	76435	76451	84988	85046	85060
20.000	.000	5.00000	2108.11163	1246.37883	861.73282	78001	78080	78095	85481	85554	85568
22.000	.000	5.00000	2109.37039	1247.37915	862.59174	80153	80253	80284	86474	86568	86582
24.000	.000	5.00000	2116.70166	1251.42284	865.27884	82264	82498	82550	86957	87172	87222
GRADIENT		.00000	1.40354	.89562	.59794	-.00015	-.00001	-.00001	-.00490	-.00477	-.00478

(FE7X07) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER - RAKES.

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDCLAP = -7.17E

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
1.200	.000	5.00000	2011.53369	829.44221	1167.44115	.82466	.82509	.82537	1.02474	1.02510	1.02535
2.000	2.000	5.00000	2009.60754	828.83453	1166.59583	.82332	.82362	.82417	1.03152	1.03178	1.03225
4.000	4.000	5.00000	2010.79175	829.08212	1166.93431	.82861	.82928	.82969	1.02226	1.02253	1.02253
6.000	6.000	5.00000	2013.55270	830.00262	1168.22932	.83518	.83593	.83600	1.01324	1.01330	1.01330
8.000	8.000	5.00000	2013.06412	829.84943	1168.01431	.84071	.84128	.84158	1.01585	1.01632	1.01651
10.000	10.000	5.00000	2013.08351	829.88634	1168.06527	.85098	.85144	.85195	1.03717	1.03757	1.03801
12.000	12.000	5.00000	2013.32959	830.14828	1168.43494	.85720	.85755	.85793	1.05536	1.05526	1.05577
14.000	14.000	5.00000	2014.49037	830.35471	1169.72548	.86582	.86546	.86599	1.05455	1.05476	1.05522
16.000	16.000	5.00000	2014.72244	830.37983	1168.75385	.88019	.88072	.88116	1.05488	1.05534	1.05573
18.000	18.000	5.00000	2016.25015	830.79547	1169.34586	.89735	.89930	.89874	1.06576	1.06660	1.06699
20.000	20.000	5.00000	2016.08566	831.44070	1170.25401	.91378	.91516	.91536	1.07245	1.07361	1.07389
22.000	22.000	5.00000	2016.50551	830.88952	1169.47824	.92705	.92863	.92881	1.07426	1.07570	1.07587
24.000	24.000	5.00000	2018.10297	831.41154	1170.21298	.94414	.94601	.94625	1.07853	1.08028	1.08050
GRADIENT		.00000	-1.19549	-.09002	-.12671	.00099	.00105	.00106	-.00076	-.00071	-.00070

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M62	M44	M54	M64
1.400	.000	5.00000	2051.54871	644.49467	1320.72128	.93889	.94315	.94712	1.22246	1.22568	1.22938
2.000	2.000	5.00000	2052.59506	644.77777	1321.30142	.93890	.94107	.94501	1.21479	1.21681	1.22048
4.000	4.000	5.00000	2045.37286	642.84837	1317.34763	.94490	.94710	.95058	1.20728	1.20934	1.21259
6.000	6.000	5.00000	2043.72565	642.53147	1316.49332	.94974	.95131	.95472	1.20276	1.20423	1.20741
8.000	8.000	5.00000	2038.74538	641.18606	1313.94118	.95599	.95781	.96101	1.20044	1.20214	1.20515
10.000	10.000	5.00000	2037.39092	640.82363	1313.19847	.95473	.95660	.95919	1.19442	1.20118	1.20363
12.000	12.000	5.00000	2038.57226	641.10538	1313.77788	.97241	.97431	.97730	1.20007	1.20187	1.20443
14.000	14.000	5.00000	2044.59929	642.69520	1317.01324	.98539	.98801	.99056	1.20508	1.20663	1.20917
16.000	16.000	5.00000	2042.34944	642.03665	1315.78711	1.00070	1.00186	1.00450	1.20574	1.20785	1.21042
18.000	18.000	5.00000	2029.50933	638.78069	1309.01199	1.00481	1.00609	1.00893	1.20172	1.20297	1.20512
20.000	20.000	5.00000	2032.62077	639.45005	1310.48613	1.01111	1.01309	1.01589	1.20292	1.20485	1.20757
22.000	22.000	5.00000	2035.48625	640.41471	1312.75998	1.02304	1.02598	1.02894	1.20822	1.21094	1.21334
24.000	24.000	5.00000	2020.62016	635.51413	1304.36728	1.02828	1.03161	1.03443	1.20338	1.20535	1.20914
GRADIENT		.00000	-1.56597	-.41158	-.184341	.00130	.00099	.00087	-.00379	-.00409	-.00420

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TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

(FE7X07) (02 AUG 75)

PARAMETRIC DATA

REFERENCE DATA

BETA = 5.000 ELEVON = .000
AILRON = .000

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 IN.
BREF = 936.6800 IN.
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M44	M54	M54
1.550	1.550	5.00000	1561.82259	396.34618	1032.75972	.98282	.99059	.99059	1.31421	1.32184	1.32703
.000	.000	5.00000	1563.04628	396.65676	1033.56905	.98286	.99149	.99149	1.31095	1.31942	1.32453
2.000	2.000	5.00000	1563.16922	396.65947	1033.59172	.98290	.99734	.99734	1.31145	1.32016	1.32459
4.000	4.000	5.00000	1563.46620	396.74025	1033.78656	1.00154	1.00820	1.00820	1.31018	1.31679	1.32188
6.000	6.000	5.00000	1567.33949	397.71354	1036.32659	1.01298	1.01905	1.01905	1.31004	1.31610	1.32134
8.000	8.000	5.00000	1572.23886	398.95424	1039.55556	1.02708	1.03208	1.03208	1.30900	1.31435	1.31913
10.000	10.000	5.00000	1570.17735	398.42982	1038.18909	1.02708	1.03208	1.03208	1.30382	1.30893	1.31302
12.000	12.000	5.00000	1568.15364	397.92425	1036.87173	1.03635	1.04076	1.04076	1.30678	1.31121	1.31419
14.000	14.000	5.00000	1568.63318	398.03831	1037.16893	1.04265	1.04698	1.04698	1.30683	1.31120	1.31562
16.000	16.000	5.00000	1568.80665	398.07167	1037.25586	1.05218	1.05633	1.05633	1.30877	1.31363	1.31816
18.000	18.000	5.00000	1568.97487	398.12064	1037.38345	1.06228	1.06628	1.06628	1.29931	1.30394	1.30905
20.000	20.000	5.00000	1571.11673	398.66999	1039.91490	1.08012	1.08452	1.08452	1.28237	1.28685	1.30071
22.000	22.000	5.00000	1571.43858	398.73845	1038.99330	1.09009	1.09324	1.09324	1.23540	1.23861	1.30180
24.000	24.000	5.00000	1571.43858	398.73845	1038.99330	1.09324	1.09636	1.09636	1.23540	1.23861	1.30180
GRADIENT	GRADIENT	.00000	.23565	.07983	.23800	.00142	.00169	.00169	-.00069	-.00042	-.00066

MACH	ALPHA	BETA	PT	P	OCOMP	M42	M52	M52	M44	M54	M54
1.750	1.750	5.00000	1555.65865	310.98268	1070.81854	1.05984	1.07492	1.07492	1.42115	1.43732	1.44866
.000	.000	5.00000	1555.87311	311.02239	1070.95529	1.05534	1.07878	1.07878	1.41611	1.43032	1.44116
2.000	2.000	5.00000	1555.91648	311.01186	1070.91904	1.06846	1.08269	1.08269	1.42059	1.43575	1.44500
4.000	4.000	5.00000	1555.53360	311.14603	1071.38102	1.07943	1.09216	1.09216	1.42228	1.43580	1.44577
6.000	6.000	5.00000	1555.73843	310.99725	1070.86871	1.08890	1.10036	1.10036	1.41905	1.43123	1.43932
8.000	8.000	5.00000	1555.74200	310.99860	1070.87334	1.09361	1.10459	1.10459	1.41658	1.42824	1.43744
10.000	10.000	5.00000	1554.84193	310.82005	1070.25854	1.10336	1.11224	1.11224	1.41553	1.42497	1.43458
12.000	12.000	5.00000	1555.26360	311.08286	1071.19794	1.11136	1.11913	1.11913	1.41845	1.42671	1.43505
14.000	14.000	5.00000	1555.33867	311.05466	1071.06638	1.12146	1.12962	1.12962	1.42198	1.42938	1.43758
16.000	16.000	5.00000	1555.22122	310.82534	1070.26005	1.13284	1.13995	1.13995	1.42618	1.43377	1.44133
18.000	18.000	5.00000	1554.73924	310.79900	1070.18747	1.14238	1.14989	1.14989	1.42433	1.43222	1.44075
20.000	20.000	5.00000	1554.73924	310.79900	1070.18747	1.15247	1.16045	1.16045	1.41403	1.42251	1.43028
22.000	22.000	5.00000	1555.71509	310.98600	1070.82997	1.16072	1.16793	1.16793	1.41075	1.41840	1.42660
24.000	24.000	5.00000	1555.66179	311.16761	1071.45531	1.16072	1.16793	1.16793	1.41075	1.41840	1.42660
GRADIENT	GRADIENT	.00000	.03946	.00730	.02512	.00221	.00194	.00194	-.00012	-.00039	-.00066

TABULATED DATA - 0A161 (ARC 11-97-87-09A)

ARC 11-97-87-09A 0A161 ORBITER + RAKES

(FETXQ7) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 5.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
2.000	2.000	1834.93884	234.25348	1087.03931	1.15070	1.18008	1.19898	1.58272	1.61614	1.63782
2.000	2.000	1830.93913	233.75630	1084.73218	1.15332	1.18256	1.20193	1.58293	1.61618	1.63839
4.000	4.000	1831.46227	233.83033	1085.07568	1.16013	1.18667	1.20653	1.57936	1.60947	1.63218
6.000	6.000	1831.73577	233.86808	1085.25089	1.17085	1.19724	1.21614	1.57678	1.60656	1.62822
8.000	8.000	1834.07381	234.17492	1086.67477	1.18632	1.21186	1.22942	1.58254	1.61146	1.63149
10.000	10.000	1836.11595	234.42052	1087.81444	1.20027	1.22209	1.24025	1.58774	1.61244	1.63312
12.000	12.000	1836.10439	234.41899	1087.80734	1.20647	1.23062	1.24709	1.58773	1.61534	1.63377
14.000	14.000	1841.38962	235.19631	1090.99950	1.22282	1.24136	1.25849	1.59355	1.61450	1.63404
16.000	16.000	1849.86311	236.19734	1096.09969	1.23571	1.25404	1.27125	1.59850	1.61918	1.63671
18.000	18.000	1849.98159	235.21837	1096.15729	1.23872	1.25674	1.27117	1.58876	1.60901	1.62529
20.000	20.000	1845.65546	235.66004	1093.56539	1.24925	1.26529	1.28026	1.58419	1.60215	1.61896
22.000	22.000	1847.52986	235.89360	1094.65019	1.27145	1.28560	1.30255	1.59514	1.61097	1.62937
24.000	24.000	1848.52892	236.04575	1095.35625	1.28481	1.29943	1.31645	1.58906	1.60531	1.62428
GRADIENT			-1.0579	-49091	.00236	.00165	.00189	-.00084	-.00167	-.00141

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
2.250	2.250	2059.36877	178.11419	1069.00958	1.21584	1.26417	1.29343	1.71330	1.77092	1.80616
2.000	2.000	2058.48529	178.03863	1068.55612	1.22088	1.26847	1.29705	1.70776	1.76431	1.79651
4.000	4.000	2059.33249	178.11115	1068.99139	1.22894	1.26736	1.29743	1.70222	1.75725	1.79324
6.000	6.000	2059.45581	178.12163	1069.05426	1.23228	1.27649	1.30359	1.71283	1.76533	1.79778
8.000	8.000	2058.44626	178.03483	1068.53333	1.25210	1.29475	1.32121	1.71929	1.76983	1.80143
10.000	10.000	2059.21459	178.10055	1069.92778	1.27045	1.30841	1.33665	1.71599	1.76058	1.79348
12.000	12.000	2059.72852	178.05897	1068.47758	1.27515	1.30984	1.33587	1.70742	1.74805	1.7872
14.000	14.000	2059.33539	178.02505	1068.47466	1.28863	1.32364	1.34949	1.71226	1.75320	1.78362
16.000	16.000	2059.73508	178.14465	1069.19247	1.29509	1.32970	1.35519	1.71053	1.75091	1.78081
18.000	18.000	2058.78250	178.06276	1068.70093	1.30563	1.33738	1.36126	1.70530	1.74214	1.76998
20.000	20.000	2058.63272	178.13567	1069.13972	1.31825	1.34734	1.37421	1.70211	1.73369	1.76243
22.000	22.000	2059.95165	178.07758	1068.78992	1.33134	1.35975	1.38379	1.71481	1.74764	1.77553
24.000	24.000	2058.71259	178.25565	1068.65547	1.31280	1.34331	1.36608	1.64937	1.68288	1.70975
GRADIENT			-1.00076	-49055	.00128	.00080	.00100	-.00277	-.00342	-.00323

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(FETX07) (02 AUG 75)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
2.500	.000	5.00000	1487.41808	86.98371	654.65117	1.27631	1.34988	1.38842	1.83860	1.92987	1.97822
2.000	.000	5.00000	1487.53204	86.99042	654.70170	1.28283	1.35513	1.39536	1.84524	1.93501	1.98550
1.500	.000	5.00000	1487.58736	86.99367	654.72614	1.29008	1.36127	1.40268	1.83941	1.92739	1.97936
1.000	.000	5.00000	1487.58563	86.99354	654.72616	1.29527	1.36607	1.40520	1.82724	1.91416	1.96270
0.500	.000	5.00000	1487.60551	86.99329	654.73932	1.31309	1.37679	1.41370	1.83817	1.91626	1.95191
0.000	.000	5.00000	1487.63135	86.99300	654.75346	1.32730	1.38623	1.42286	1.84472	1.91879	1.95195
0.000	.000	5.00000	1487.65315	86.99188	654.75260	1.33987	1.39440	1.43107	1.84583	1.91634	1.95040
0.000	.000	5.00000	1487.67452	86.99171	654.75557	1.35283	1.40443	1.43952	1.84583	1.91550	1.95040
0.000	.000	5.00000	1487.69452	86.99171	654.75650	1.36569	1.41586	1.45031	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.71452	86.99171	654.75650	1.38167	1.42715	1.46085	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.73452	86.99171	654.75650	1.39462	1.43937	1.47350	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.75452	86.99171	654.75650	1.40684	1.45099	1.48543	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.77452	86.99171	654.75650	1.41980	1.46218	1.49584	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.79452	86.99171	654.75650	1.43344	1.47350	1.50599	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.81452	86.99171	654.75650	1.44715	1.48543	1.51791	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.83452	86.99171	654.75650	1.46085	1.49584	1.52986	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.85452	86.99171	654.75650	1.47350	1.50599	1.54181	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.87452	86.99171	654.75650	1.48543	1.51791	1.55376	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.89452	86.99171	654.75650	1.49584	1.52986	1.56571	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.91452	86.99171	654.75650	1.50599	1.54181	1.57766	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.93452	86.99171	654.75650	1.51791	1.55376	1.58961	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.95452	86.99171	654.75650	1.52986	1.56571	1.60156	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.97452	86.99171	654.75650	1.54181	1.57766	1.61351	1.85207	1.91441	1.95040
0.000	.000	5.00000	1487.99452	86.99171	654.75650	1.55376	1.58961	1.62546	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.01452	86.99171	654.75650	1.56571	1.60156	1.63741	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.03452	86.99171	654.75650	1.57766	1.61351	1.64936	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.05452	86.99171	654.75650	1.58961	1.62546	1.66131	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.07452	86.99171	654.75650	1.60156	1.63741	1.67326	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.09452	86.99171	654.75650	1.61351	1.64936	1.68521	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.11452	86.99171	654.75650	1.62546	1.66131	1.69716	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.13452	86.99171	654.75650	1.63741	1.67326	1.70911	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.15452	86.99171	654.75650	1.64936	1.68521	1.72106	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.17452	86.99171	654.75650	1.66131	1.69716	1.73301	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.19452	86.99171	654.75650	1.67326	1.70911	1.74496	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.21452	86.99171	654.75650	1.68521	1.72106	1.75691	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.23452	86.99171	654.75650	1.69716	1.73301	1.76886	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.25452	86.99171	654.75650	1.70911	1.74496	1.78081	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.27452	86.99171	654.75650	1.72106	1.75691	1.79276	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.29452	86.99171	654.75650	1.73301	1.76886	1.80471	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.31452	86.99171	654.75650	1.74496	1.78081	1.81666	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.33452	86.99171	654.75650	1.75691	1.79276	1.82861	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.35452	86.99171	654.75650	1.76886	1.80471	1.84056	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.37452	86.99171	654.75650	1.78081	1.81666	1.85251	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.39452	86.99171	654.75650	1.79276	1.82861	1.86446	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.41452	86.99171	654.75650	1.80471	1.84056	1.87641	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.43452	86.99171	654.75650	1.81666	1.85251	1.88836	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.45452	86.99171	654.75650	1.82861	1.86446	1.90031	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.47452	86.99171	654.75650	1.84056	1.87641	1.91226	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.49452	86.99171	654.75650	1.85251	1.88836	1.92421	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.51452	86.99171	654.75650	1.86446	1.90031	1.93616	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.53452	86.99171	654.75650	1.87641	1.91226	1.94811	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.55452	86.99171	654.75650	1.88836	1.92421	1.96006	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.57452	86.99171	654.75650	1.90031	1.93616	1.97201	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.59452	86.99171	654.75650	1.91226	1.94811	1.98396	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.61452	86.99171	654.75650	1.92421	1.96006	1.99591	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.63452	86.99171	654.75650	1.93616	1.97201	2.00786	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.65452	86.99171	654.75650	1.94811	1.98396	2.01981	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.67452	86.99171	654.75650	1.96006	1.99591	2.03176	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.69452	86.99171	654.75650	1.97201	2.00786	2.04371	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.71452	86.99171	654.75650	1.98396	2.01981	2.05566	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.73452	86.99171	654.75650	1.99591	2.03176	2.06761	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.75452	86.99171	654.75650	2.00786	2.04371	2.07956	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.77452	86.99171	654.75650	2.01981	2.05566	2.09151	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.79452	86.99171	654.75650	2.03176	2.06761	2.10346	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.81452	86.99171	654.75650	2.04371	2.07956	2.11541	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.83452	86.99171	654.75650	2.05566	2.09151	2.12736	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.85452	86.99171	654.75650	2.06761	2.10346	2.13931	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.87452	86.99171	654.75650	2.07956	2.11541	2.15126	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.89452	86.99171	654.75650	2.09151	2.12736	2.16321	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.91452	86.99171	654.75650	2.10346	2.13931	2.17516	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.93452	86.99171	654.75650	2.11541	2.15126	2.18711	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.95452	86.99171	654.75650	2.12736	2.16321	2.19906	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.97452	86.99171	654.75650	2.13931	2.17516	2.21101	1.85207	1.91441	1.95040
0.000	.000	5.00000	1488.99452	86.99171	654.75650	2.15126	2.18711	2.22296	1.85207	1.91441	1.95040
0.000	.000	5.00000	1489.01452	86.99171	654.75650	2.16321	2.19906	2.23491	1.85207	1.91441	1.95040
0.000	.000	5.00000	1489.03452	86.99171	654.75650	2.17516	2.21101	2.24686	1.85207	1.91441	1.95040
0.000	.000	5.00000	1489.05452	86.99171	654.75650	2.18711	2.22296	2.25881	1.85207	1.91441	1.95040
0.000	.000	5.00000	1489.07452	86.99171	654.75650	2.19906	2.23491	2.27076	1.85207	1.91441	1.950

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(1F7X07) (02 AUG 76)

REFERENCE DATA

SREF = 2590.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 5.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

PARAMETRIC DATA

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500
ALPHA

BETA	PT	P	QCOMP	M42	M52	M62	M44	M54	M64
5.00000	2693.02945	35.14780	535.72283	1.43310	1.59447	1.68004	2.21258	2.43401	2.55297
5.00000	2682.78693	35.14482	535.67736	1.44019	1.60552	1.69547	2.22010	2.44703	2.57211
5.00000	2680.96332	35.14255	535.32265	1.45205	1.61426	1.70209	2.21557	2.43675	2.55759
5.00000	2682.66339	35.14306	535.65353	1.45750	1.62329	1.70864	2.22208	2.43356	2.55090
5.00000	2687.66255	35.11761	535.26256	1.48884	1.63589	1.72011	2.23913	2.43933	2.55362
5.00000	2682.31409	35.13848	535.58065	1.51803	1.64886	1.73094	2.25295	2.42687	2.54024
5.00000	2680.79322	35.11946	535.29087	1.53789	1.65307	1.74349	2.25644	2.41823	2.53187
5.00000	2681.94269	35.13391	535.51109	1.5019	1.67624	1.75902	2.27468	2.42924	2.54032
5.00000	2680.82974	35.11878	535.28040	1.58434	1.69654	1.78009	2.27920	2.42752	2.53950
5.00000	2680.17957	35.11156	535.17036	1.59405	1.70109	1.78642	2.28217	2.42007	2.54431
5.00000	2682.18320	35.13710	535.55972	1.61040	1.71595	1.79379	2.27181	2.40931	2.54921
5.00000	2680.60205	35.11565	535.23274	1.61907	1.72498	1.80895	2.25910	2.39594	2.54294
5.00000	2680.41901	35.11479	535.21957	1.62595	1.73166	1.81287	2.23955	2.37409	2.47651
5.00000	-5.1654	-0.0656	-1.0005	0.0474	0.0495	0.0551	0.0075	0.0068	0.0125

ARC 11-97-87-094 0A161 ORBITER - WING + RAKES

(1B7H31) (02 AUG 75)

REFERENCE DATA

SREF = 2590.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = .000 BOFLAP = -7.170

PARAMETRIC DATA

P1/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600
ALPHA

BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
1.6121	2559.30345	554.58600	1.00223	1.00173	.99863	1.00223	1.00133	1.00043	-2.0547
2.0773	2557.24118	554.11072	1.00283	1.00129	1.00051	1.00096	1.00230	1.00044	-1.9752
2.1723	2555.95739	553.89635	1.00139	1.00139	1.00135	1.00082	1.00142	1.00138	-1.9579
2.0861	2557.01563	554.95931	1.00131	1.00138	1.00147	1.00059	1.00099	1.00054	-2.2535
2.2899	2570.76517	554.99057	.99930	1.00003	.99996	.99832	1.00059	.99838	-2.5501
2.3120	2569.81665	554.59441	.99287	.99349	.99994	.99292	.99494	.99540	-2.2818
2.4126	2571.05220	555.01620	.99711	.99270	.99553	.96941	.99015	.92398	-3.2421
2.1148	-5.1705	-1.1892	-0.0035	-0.0011	0.0047	-0.0032	0.0024	0.0000	0.00374

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - WING + RAKES

(8E7401) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = .000 SCFLAP = -7.170

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA =	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
.700	.000	.16484	2328.95743	650.04056	1.00001	.99964	1.00001	1.00035	1.00033	.99862	-.20876
.800	.000	.20454	2331.57224	650.71506	1.00000	.99964	1.00001	1.00108	1.00105	.99339	-.18903
.900	.000	.21223	2331.19591	650.63351	1.00069	1.00107	1.00108	.99965	.99965	1.00069	-.19185
1.000	.000	.20907	2330.18344	650.31766	.99999	1.00076	1.00150	1.00093	1.00132	.99943	-.21842
1.100	.000	.22873	2331.09445	650.60233	1.00116	1.00070	1.00150	1.00054	1.00231	.99943	-.24918
1.200	.000	.22873	2331.09445	650.60233	.99518	.99662	.99403	.99955	.99558	.99509	-.28703
1.300	.000	.22881	2329.96671	650.27924	.97319	.96665	.95167	.97527	.96350	.96375	-.31072
1.400	.000	.25004	2329.57666	650.17032	-.00009	.00009	.00017	.00018	.00018	.00018	-.00493
1.500	.000	.00992	.65370	.16862							

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA =	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
.800	.000	.16437	2199.40393	756.56551	1.00057	1.00088	1.00000	1.00116	1.00001	.99941	-.20773
.900	.000	.20151	2196.76315	755.63815	1.00059	1.00058	.99971	1.00058	.99942	.99942	-.19084
1.000	.000	.21100	2196.79987	755.61118	.99941	1.00055	1.00141	1.00031	.99955	.99937	-.20079
1.100	.000	.20953	2195.25504	755.05513	1.00141	1.00095	1.00076	.99934	.99953	1.00059	-.21632
1.200	.000	.23428	2196.30389	755.45142	.99948	.99946	.99903	.99834	.99923	.99832	-.24720
1.300	.000	.24493	2194.02850	754.63434	.99555	.99702	.99478	.99613	.99300	.99897	-.27652
1.400	.000	.25439	2193.77629	754.47910	.97541	.97198	.96914	.97745	.96542	.96716	-.31264
1.500	.000	.00929	-.66019	-.23186	.00000	-.00008	-.00007	-.00015	-.00015	.00000	-.00422

RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA =	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
.800	.000	.16437	2199.40393	756.56551	1.00057	1.00088	1.00000	1.00116	1.00001	.99941	-.20773
.900	.000	.20151	2196.76315	755.63815	1.00059	1.00058	.99971	1.00058	.99942	.99942	-.19084
1.000	.000	.21100	2196.79987	755.61118	.99941	1.00055	1.00141	1.00031	.99955	.99937	-.20079
1.100	.000	.20953	2195.25504	755.05513	1.00141	1.00095	1.00076	.99934	.99953	1.00059	-.21632
1.200	.000	.23428	2196.30389	755.45142	.99948	.99946	.99903	.99834	.99923	.99832	-.24720
1.300	.000	.24493	2194.02850	754.63434	.99555	.99702	.99478	.99613	.99300	.99897	-.27652
1.400	.000	.25439	2193.77629	754.47910	.97541	.97198	.96914	.97745	.96542	.96716	-.31264
1.500	.000	.00929	-.66019	-.23186	.00000	-.00008	-.00007	-.00015	-.00015	.00000	-.00422

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER - WING + RAKES

(BETHD1) (02 AUG 75)

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = .000 EDCLAP = -7.170

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .990	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	.16911	2077.71304	954.38324	1.00066	1.00045	1.00043	1.00087	.99937	1.00001	-29558
.000	.20583	2078.78214	954.80212	.99933	1.00018	.99978	.99932	.99891	.99977	-25831
4.000	.21969	2078.0903	954.59937	.99932	.00108	1.00040	.99932	.99935	1.00020	-27583
8.000	.20767	2078.12507	954.67059	1.00026	1.00055	1.00077	.99932	.99932	.99932	-26927
12.000	.22584	2078.14340	953.64047	.99932	.99932	.99915	.99932	.99932	.99932	-26137
16.000	.22780	2076.54349	953.82539	.99990	.99728	.99569	.99531	.99531	.99531	-25983
20.000	.22062	2075.84442	953.51797	.99302	.99799	.97845	.99483	.99483	.99483	-26333
24.000	.00943	.26727	.10347	-.00033	-.00007	-.00015	-.00032	-.00012	-.00006	-00987
GRADIENT										

RN/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.100	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	.15161	2035.51959	1080.47565	.99919	.99829	.99922	.99935	.99919	.99922	-25547
.000	.19511	2030.54741	1077.28851	1.00100	1.00092	1.00063	1.00139	.99919	.99922	-24564
4.000	.22040	2035.05078	1080.33168	.99385	1.00062	1.00116	.99932	.99932	.99932	-24563
8.000	.21501	2032.16158	1078.20200	1.00091	1.00075	1.00061	.99932	.99932	.99932	-27354
12.000	.22793	2033.13483	1078.78250	.99955	1.00014	1.00010	.99932	.99932	.99932	-26457
16.000	.23241	2033.65359	1079.04370	.99383	.99752	.99528	.99528	.99528	.99528	-26421
20.000	.22693	2029.55772	1076.85587	.99548	.98267	.98178	.98751	.98267	.98267	-32475
24.000	.01112	-.149304	-.79576	.00045	.00050	.00040	.00035	.00035	.00035	.00241
GRADIENT										

RN/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	.16066	2007.38373	1165.13511	1.00091	1.00053	.99923	.99973	1.00011	1.00072	-23752
.000	.19327	2005.49535	1154.67940	1.00161	1.00126	1.00023	.99923	.99923	.99923	-22477
4.000	.20479	2007.09991	1164.59655	1.00179	1.00127	1.00023	.99923	.99923	.99923	-22477
8.000	.19358	2008.10985	1165.59649	1.00164	1.00093	.99998	.99923	.99923	.99923	-22477
12.000	.21854	2007.54323	1165.20180	1.00143	1.00075	.99959	.99923	.99923	.99923	-22477
16.000	.22444	2007.01750	1164.87754	.99649	.99737	.99583	.99583	.99583	.99583	-22477
20.000	.22139	2007.67075	1165.32821	.99488	.98932	.98490	.98932	.98932	.98932	-22477
24.000	.00818	-.122209	-.11417	.00017	.00018	.00025	.00006	.00025	.00025	.00329
GRADIENT										

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER - WING + RAKES

(BE7H01) (02 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SC.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.8800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

MACH = 1.300

ALPHA

.000

4.000

8.000

12.000

16.000

20.000

24.000

GRADIENT

MACH = 1.400

ALPHA

.000

4.000

8.000

12.000

16.000

20.000

24.000

GRADIENT

PARAMETRIC DATA

BETA = .000 BDFLAP = -7.170

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

PT	QC	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
16370	2014.64940	1245.96738	1.00407	1.00133	.99860	1.00011	1.00391	-21450
20227	2014.64159	1245.95663	1.00378	1.00168	1.00045	.99737	1.00100	-20534
18366	2015.39772	1246.61623	1.00607	1.00194	1.00082	.99927	1.00165	-21143
27777	2015.31550	1246.37619	1.00508	1.00090	.99970	.99839	1.00124	-23043
21111	2016.32428	1246.89757	1.00303	1.00164	.99521	.99557	.99895	-24723
22289	2016.37533	1247.14417	.98910	.99786	.99265	.99366	.99705	-25135
22255	2017.14304	1247.66907	.98757	.98752	.98591	.98573	.9919	-25776
00972	.00195	.00269	.00007	.00009	.00046	.00069	.00073	.00232

RN/L = 4.22 GRADIENT INTERVAL = -5.00/ 5.00

PT	QC	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
14537	2039.20335	1312.72670	.99997	.99986	.98501	.99218	1.00128	-19235
20196	2039.62335	1312.80324	1.00342	1.00413	.99331	.99414	1.00198	-18539
21389	2039.44522	1313.43784	1.00587	1.00278	.99473	.99430	1.00152	-19059
20384	2039.84558	1313.51151	1.00342	.99957	.99200	.99603	1.00367	-20526
22151	2040.45193	1313.83667	.99947	1.00166	.98937	.99420	1.00106	-22905
23287	2040.67920	1313.99330	.99403	.99088	.98339	.98144	.99741	-23583
21411	204.14753	1314.11967	.98619	.98210	.97421	.98159	.98939	-23977
01415	.00503	.01913	.00386	.00107	.00207	.00049	.00017	.00174

(BE7H03) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200

ALPHA	BETA	PT	CCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.000	-5.00000	2003.91339	1165.56922	.99928	.99910	.99751	.99654	.99560	.99576	.99752
2.000	-5.00000	2009.58576	1166.22134	1.00232	1.00182	1.00012	.99972	.99928	.99969	.99908
4.000	-5.00000	2012.39209	1167.40450	1.00361	1.00329	1.00149	1.00045	1.00088	1.00021	1.00337
6.000	-5.00000	2007.33059	1165.43674	1.00277	1.00238	1.00134	.99939	.99974	.99976	.99436
8.000	-5.00000	2005.18105	1165.08044	1.00083	1.00072	.99873	.99729	.99646	.99645	.99542
10.000	-5.00000	1995.63334	1163.13529	.99934	.99904	.99722	.99453	.99212	.99131	.97234
12.000	-5.00000	2001.46516	1163.65021	.99965	.99970	.99812	.99524	.99169	.99064	.97548
14.000	-5.00000	2001.00822	1163.50826	.99909	.99930	.99727	.99269	.98924	.98924	.97171
16.000	-5.00000	1999.43224	1163.33114	.99917	.99771	.99634	.98220	.98381	.98512	.96645
18.000	-5.00000	2003.13529	1164.23153	.99768	.99813	.99682	.99024	.98486	.98326	.97436
20.000	-5.00000	2003.60002	1163.47430	.99535	.99595	.99372	.98742	.98207	.98331	.96136
22.000	-5.00000	1995.12405	1162.11552	.99144	.99143	.98899	.97903	.97522	.97739	.95030
24.000	-5.00000	1995.54181	1161.77493	.98714	.98997	.98464	.97236	.97061	.97342	.94750
GRADIENT	.00000	.86957	.20908	.00108	.00105	.00099	.00095	.00132	.00111	.00396

MACH = 1.550

ALPHA	BETA	PT	CCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.000	-5.00000	1578.31139	1042.32884	1.03805	1.02899	1.01120	.95476	.96496	.97542	.15556
2.000	-5.00000	1578.99117	1042.76854	1.03691	1.02632	1.01481	.95553	.96545	.97610	.15580
4.000	-5.00000	1577.32025	1041.71767	1.04014	1.02944	1.01896	.95948	.96903	.97927	.15717
6.000	-5.00000	1577.34309	1041.73790	1.04254	1.03344	1.02036	.95937	.96917	.97953	.15518
8.000	-5.00000	1578.33284	1042.35515	1.04416	1.03703	1.01987	.95214	.96634	.97675	.15841
10.000	-5.00000	1575.77389	1040.70128	1.04702	1.03968	1.02401	.95010	.96335	.97166	.15993
12.000	-5.00000	1575.64364	1040.63941	1.04425	1.03828	1.02472	.95393	.96367	.97114	.15997
14.000	-5.00000	1575.97449	1040.83922	1.04389	1.03733	1.02508	.95398	.96477	.97145	.15716
16.000	-5.00000	1576.27509	1041.04663	1.03938	1.03497	1.02438	.94990	.96477	.97096	.15739
18.000	-5.00000	1575.81870	1040.74942	1.03507	1.03043	1.01937	.94825	.96208	.97349	.15744
20.000	-5.00000	1575.63844	1040.75685	1.02821	1.02375	1.01533	.93937	.95556	.96877	.15734
22.000	-5.00000	1575.63844	1041.17079	1.02223	1.01749	1.01387	.92844	.94700	.95991	.15696
24.000	-5.00000	1575.42549	1041.17079	1.02223	1.01749	1.01387	.91775	.93531	.94972	.15493
GRADIENT	.00000	-.24779	-.15279	.00052	.00011	.00194	.00118	.00102	.00095	.00223

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(BE7H03) (02 AUG 75)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
	.000	-5.00000	1849.42418	1066.72121	1.05937	1.05441	1.02115	.92077	.94375	.96864	-.13650
	2.000	-5.00000	1850.93587	1067.72229	1.07263	1.05416	1.01816	.92693	.94954	.97172	-.13537
	4.000	-5.00000	1852.24394	1067.25003	1.07499	1.05730	1.02293	.93123	.95354	.97585	-.13606
	6.000	-5.00000	1849.94432	1067.03953	1.07483	1.06111	1.02912	.93701	.95696	.97893	-.13628
	8.000	-5.00000	1850.82304	1067.65071	1.07745	1.06707	1.03892	.92926	.95821	.98335	-.13591
	10.000	-5.00000	1850.44762	1067.39171	1.07914	1.07005	1.04424	.93120	.96220	.98236	-.13777
	12.000	-5.00000	1851.41377	1068.03642	1.07826	1.06997	1.04671	.94305	.96503	.98269	-.13389
	14.000	-5.00000	1851.02856	1067.76807	1.07792	1.06847	1.05021	.94295	.96243	.98179	-.14271
	16.000	-5.00000	1850.14075	1067.19304	1.07687	1.06500	1.04956	.93370	.96027	.97908	-.13448
	18.000	-5.00000	1850.84254	1067.65240	1.07402	1.06500	1.04956	.92332	.95074	.96930	-.14420
	20.000	-5.00000	1851.38724	1068.00276	1.07230	1.06305	1.04633	.91412	.94237	.95112	-.14714
	22.000	-5.00000	1851.57825	1068.12389	1.06951	1.05920	1.03861	.90806	.93496	.95459	-.15281
	24.000	-5.00000	1851.58163	1068.12617	1.05244	1.05261	1.02916	.89969	.92379	.94365	-.15562
	GRADIENT	.00000	.20419	.13221	.00140	.00072	.00045	.00261	.00245	.00189	.00011

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
	.000	-5.00000	1847.06216	1095.04305	1.11696	1.09140	1.03503	.88844	.93302	.97152	-.13661
	2.000	-5.00000	1848.03523	1095.63314	1.12003	1.09310	1.02553	.89784	.93989	.97709	-.10829
	4.000	-5.00000	1847.42177	1095.27618	1.12101	1.09636	1.02909	.90396	.94772	.98345	-.10939
	6.000	-5.00000	1846.93721	1094.97044	1.12231	1.10428	1.05604	.91225	.95337	.98585	-.10792
	8.000	-5.00000	1846.93905	1094.99344	1.12428	1.10681	1.06366	.91402	.95774	.99197	-.10759
	10.000	-5.00000	1846.49546	1094.67595	1.12395	1.10754	1.06958	.91470	.96292	.99179	-.11185
	12.000	-5.00000	1846.51515	1094.69148	1.12655	1.11130	1.07705	.92383	.96293	.99336	-.11515
	14.000	-5.00000	1846.62752	1094.75682	1.12678	1.10926	1.08277	.92657	.96109	.99049	-.11672
	16.000	-5.00000	1846.03931	1094.35096	1.12316	1.10650	1.08017	.91643	.95768	.98796	-.11166
	18.000	-5.00000	1846.35056	1094.58261	1.11583	1.10109	1.07906	.90699	.94505	.97609	-.11537
	20.000	-5.00000	1846.85518	1094.89108	1.11345	1.09813	1.07556	.90101	.94096	.96939	-.12040
	22.000	-5.00000	1847.20576	1095.09203	1.11251	1.09560	1.06918	.89164	.93112	.95929	-.12344
	24.000	-5.00000	1846.00110	1094.37541	1.10711	1.09042	1.05678	.88835	.92484	.95263	-.12599
	GRADIENT	.00000	.08990	.05829	.00101	.00124	-.00118	.00388	.00368	.00298	-.00069

TABULATED DATA - QA161 (ARC 11-97-87-094)
 (BE7H03) (02 AUG 76)

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BDFAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
	.000	-5.00000	2051.52133	1064.93391	1.16130	1.12496	1.03802	.85580	.92459	.97817	-.08702
	2.000	-5.00000	2050.73444	1064.52908	1.16488	1.12923	1.03714	.86203	.93061	.98435	-.08831
	4.000	-5.00000	2050.90634	1064.61781	1.16494	1.13300	1.04502	.87097	.93601	.98793	-.08123
	6.000	-5.00000	2050.73029	1064.52737	1.17052	1.14499	1.07326	.88115	.94042	.99018	-.09238
	8.000	-5.00000	2051.17938	1064.75842	1.17448	1.14838	1.08687	.88876	.94627	.99273	-.09224
	10.000	-5.00000	2051.78479	1065.05981	1.17237	1.14824	1.09091	.89699	.95569	.99959	-.09591
	12.000	-5.00000	2052.43539	1065.40637	1.17091	1.14439	1.09331	.90475	.96345	1.00098	-.10002
	14.000	-5.00000	2054.13220	1066.25032	1.16677	1.14386	1.10320	.90734	.96824	.99773	-.09915
	16.000	-5.00000	2055.24664	1066.85034	1.16793	1.14304	1.09958	.90168	.96502	.99700	-.10333
	18.000	-5.00000	2055.90338	1067.19557	1.16428	1.13694	1.10012	.89990	.96711	.99729	-.10180
	20.000	-5.00000	2055.49188	1066.98186	1.15917	1.13233	1.09917	.88772	.95843	.97793	-.10341
	22.000	-5.00000	2055.36655	1066.91809	1.15428	1.12614	1.08947	.87644	.94955	.96848	-.10593
	24.000	-5.00000	2056.58188	1067.54214	1.14815	1.12074	1.07331	.86217	.91477	.95429	-.10653
	GRADIENT	.00000	-.15373	-.07902	.00091	.00201	.00175	.00379	.00286	.00244	-.00105

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
	.000	-5.00000	1498.55390	659.62552	1.24437	1.21318	1.10132	.79587	.87853	.94450	-.07792
	2.000	-5.00000	1497.87276	659.31431	1.24410	1.21555	1.10569	.80415	.88753	.95712	-.07926
	4.000	-5.00000	1497.09436	658.97150	1.24705	1.22039	1.11979	.81692	.89948	.96625	-.08035
	6.000	-5.00000	1497.75047	659.26024	1.25003	1.22750	1.13523	.83004	.90945	.97420	-.08082
	8.000	-5.00000	1497.84230	659.32032	1.24767	1.22531	1.14278	.84449	.92443	.97882	-.08170
	10.000	-5.00000	1497.81511	659.28880	1.24953	1.22449	1.14566	.85580	.92749	.98350	-.08493
	12.000	-5.00000	1497.81754	659.28955	1.24365	1.22045	1.15554	.85267	.93274	.98555	-.08673
	14.000	-5.00000	1497.78598	659.27169	1.24910	1.21622	1.16138	.86594	.93498	.98503	-.08770
	16.000	-5.00000	1497.77367	659.26360	1.24591	1.21152	1.15997	.86592	.93055	.98139	-.08700
	18.000	-5.00000	1497.79548	659.26370	1.24047	1.20489	1.15619	.85092	.92542	.97575	-.09004
	20.000	-5.00000	1497.79367	659.27309	1.23758	1.20003	1.15179	.85173	.91571	.96365	-.09094
	22.000	-5.00000	1497.81293	659.28218	1.22747	1.19102	1.14312	.83994	.90300	.95148	-.09201
	24.000	-5.00000	1497.82393	659.28389	1.21805	1.18384	1.13715	.82420	.88469	.93399	-.09145
	GRADIENT	.00000	-.36733	-.16350	.00067	.00180	.00462	.00524	.00324	.00544	-.00061

(BF7H03) (02 AUG 78)

ARC 11-97-87-094 OA161 ORBITER + RAKES

PARAMETRIC DATA

BETA	=	-5.000	ELEVON	=	.000
AILRON	=	.000	BDFLAP	=	-7.170

REFERENCE DATA

SEEF	=	2690.0000	SQ.FT.	YMRP	=	1076.6800	IN.	XO
REF	=	474.8000	IN.	YMRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0300						

BN/	=	1.93	GRADIENT	INTERVAL	=	-5.00/	5.00
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MACH	ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
3.000	-5.00000	1935.56339	565.22348	1.36869	1.33103	1.14859	1.14859	71902	83745	93582	-05595
2.000	-5.00000	1935.15036	565.12438	1.37067	1.33510	1.16262	1.16262	72737	84542	94664	-05821
4.000	-5.00000	1936.07675	565.35988	1.37478	1.34145	1.18607	1.18607	74447	86266	95921	-05857
6.000	-5.00000	1936.52793	565.48977	1.37291	1.34020	1.19842	1.19842	75998	87469	96983	-06037
8.000	-5.00000	1936.47981	565.47600	1.37620	1.34080	1.21911	1.21911	78070	88913	97501	-06039
0.000	-5.00000	1936.30977	565.45056	1.37734	1.34050	1.22077	1.22077	79782	90277	98379	-06203
2.000	-5.00000	1936.00462	565.34191	1.38116	1.32981	1.22750	1.22750	80759	90518	98723	-06250
4.000	-5.00000	1935.57829	565.18574	1.38373	1.32826	1.23648	1.23648	81397	91180	98930	-06194
6.000	-5.00000	1935.34929	565.01133	1.38214	1.31893	1.23448	1.23448	81986	91500	99059	-06201
8.000	-5.00000	1935.29300	564.98677	1.37792	1.31003	1.22563	1.22563	81752	91231	98437	-06388
10.000	-5.00000	1934.35139	564.76923	1.37229	1.30423	1.21849	1.21849	80896	90157	97325	-06473
20.000	-5.00000	1934.81850	564.94459	1.36198	1.29535	1.20735	1.20735	79742	88617	95652	-06544
30.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539
40.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539
50.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539
60.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539
70.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539
80.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539
90.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539
100.000	-5.00000	1934.05530	564.63592	1.34949	1.28318	1.19861	1.19861	78238	86583	93459	-06539

BN/1 = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

TABULATED DATA - OAI61 (ARC 11-97-87-094)
ARC 11-97-87-094 OAI61 ORBITER + RAKES

(BETHO4) (02 AUG 76)

PARAMETRIC DATA

BETA =
AILRON =
-2.000 ELEVON =
.000 BDFLAP =
-7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
1.550	.000	-2.00000	1574.43616	1039.23260	1.02345	1.01483	.99860	.97172	.98286	.99427	-.14018
2.000	2.000	-2.00000	1573.92516	1038.90645	1.02517	1.01273	1.00272	.97508	.98579	.99701	-.14113
4.000	4.000	-2.00000	1573.05987	1039.33949	1.02822	1.01659	1.00676	.98044	.99147	1.00043	-.14284
6.000	6.000	-2.00000	1573.57761	1038.68646	1.03016	1.02011	1.00864	.98256	.99300	1.00243	-.14413
8.000	8.000	-2.00000	1574.31930	1039.18500	1.03483	1.02697	1.01051	.98623	.99334	1.00250	-.14735
10.000	10.000	-2.00000	1574.64066	1039.37476	1.03586	1.02874	1.01377	.98609	.99176	1.00343	-.15225
12.000	12.000	-2.00000	1574.84332	1039.51079	1.03249	1.02652	1.01321	.97673	.99019	1.00247	-.15691
14.000	14.000	-2.00000	1574.59084	1039.34938	1.03094	1.02376	1.01400	.98672	.99347	1.00277	-.16048
16.000	16.000	-2.00000	1575.31658	1039.83284	1.02784	1.02190	1.00774	.98135	.98557	.99542	-.16296
18.000	18.000	-2.00000	1575.34929	1039.84596	1.02424	1.01902	1.00774	.97290	.98571	.99241	-.16391
20.000	20.000	-2.00000	1574.16403	1039.06374	1.02074	1.01437	1.00379	.96568	.98071	.98604	-.17025
22.000	22.000	-2.00000	1574.15891	1039.56938	1.01482	1.00868	1.00079	.95706	.97418	.97853	-.17949
24.000	24.000	-2.00000	1574.84604	1039.52930	1.00842	1.00253	.99448	.95098	.96756	.97853	-.17949
GRADIENT		.00000	-.34433	-.22328	.00119	.00044	.00204	.00218	.00215	.00154	-.00067

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
1.750	.000	-2.00000	1650.91153	1067.69946	1.05025	1.03341	.99900	.96120	.98536	1.00815	-.12801
2.000	2.000	-2.00000	1652.84775	1068.96416	1.05402	1.03228	.99415	.96578	.98987	1.01170	-.12918
4.000	4.000	-2.00000	1653.85585	1069.60932	1.05455	1.03599	.99711	.96934	.99146	1.01380	-.12878
6.000	6.000	-2.00000	1654.30829	1069.92824	1.05762	1.04466	1.01171	.97365	.99436	1.01539	-.12938
8.000	8.000	-2.00000	1653.79941	1069.57295	1.06031	1.04730	1.01806	.97762	.99775	1.01741	-.13161
10.000	10.000	-2.00000	1654.31114	1069.92749	1.06043	1.04947	1.01806	.97267	.99997	1.02100	-.13562
12.000	12.000	-2.00000	1655.30827	1070.56705	1.05995	1.04974	1.02839	.97131	1.00012	1.02049	-.13808
14.000	14.000	-2.00000	1655.65330	1070.78859	1.05692	1.04820	1.02802	.98539	1.00197	1.01876	-.14053
16.000	16.000	-2.00000	1654.93355	1070.32930	1.05510	1.04653	1.03016	.98307	.99942	1.01711	-.14265
18.000	18.000	-2.00000	1655.58514	1070.76558	1.05248	1.04341	1.02638	.97072	.99486	1.01163	-.14314
20.000	20.000	-2.00000	1657.05319	1071.71434	1.04824	1.03704	1.01612	.96357	.98979	1.00716	-.14503
22.000	22.000	-2.00000	1657.68335	1072.11337	1.04238	1.03152	1.01612	.95952	.98397	1.00259	-.15130
24.000	24.000	-2.00000	1657.51353	1072.00942	1.03644	1.02670	1.00128	.95413	.97732	.99572	-.15900
GRADIENT		.00000	.73508	.47761	.00107	.00065	-.00047	.00203	.00152	.00141	-.00019

11-97-87-094
OAI61 ORBITER + RAKES

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(BETH04) (02 AUG 76)

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = -2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
2.000	-2.00000	1845.93443	1094.69649	1.08140	1.05073	.99476	.93978	.98496	1.02441	-1.0538
2.000	-2.00000	1846.41615	1094.37723	1.08691	1.05806	.99574	.94560	.99143	1.02869	-1.0589
2.000	-2.00000	1846.47342	1094.41763	1.08893	1.06246	.99984	.95153	.99442	1.03301	-1.0530
2.000	-2.00000	1847.01998	1094.75133	1.09127	1.06533	1.01382	.95955	1.00303	1.03765	-1.0516
2.000	-2.00000	1846.99838	1094.73875	1.08873	1.06403	1.02202	.96562	1.00650	1.03851	-1.0799
2.000	-2.00000	1846.95039	1094.73189	1.08873	1.06738	1.02979	.96844	1.01050	1.04127	-1.1109
2.000	-2.00000	1846.84956	1094.53534	1.09124	1.07259	1.03725	.96526	1.01123	1.04119	-1.1358
2.000	-2.00000	1846.59160	1094.49269	1.09158	1.07304	1.04283	.97443	1.00907	1.03774	-1.1654
2.000	-2.00000	1847.17949	1094.87161	1.08865	1.07102	1.04475	.97132	1.00305	1.03076	-1.1814
2.000	-2.00000	1846.81461	1094.66362	1.08217	1.05576	1.04231	.96233	1.00316	1.02545	-1.1719
2.000	-2.00000	1846.81461	1094.62637	1.07932	1.05125	1.02710	.95671	.99602	1.02240	-1.1975
2.000	-2.00000	1847.35541	1094.95123	1.07119	1.05129	1.01319	.95027	.98773	1.01534	-1.2258
2.000	-2.00000	1846.02236	1094.15593	1.06330	1.04485	1.00364	.94694	.98386	1.00966	-1.2581
2.000	-2.00000	1846.11399	1094.06971	1.00188	1.00293	.00127	.00294	.00237	.00215	.00002

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
2.250	-2.00000	2059.32037	1069.48225	1.10848	1.06301	.97368	.91560	.99058	1.04379	-1.08910
2.000	-2.00000	2059.98480	1069.31013	1.11459	1.07099	.98542	.91929	.99439	1.04878	-1.08995
2.000	-2.00000	2059.56003	1069.09161	1.11716	1.07663	.99426	.92405	.99294	1.04798	-1.08915
2.000	-2.00000	2060.01712	1069.32610	1.12273	1.08228	1.00899	.93395	.99933	1.05038	-1.09032
2.000	-2.00000	2060.34888	1069.49667	1.12552	1.08776	1.01945	.94236	1.00690	1.05322	-1.09149
2.000	-2.00000	2060.24548	1069.44347	1.12574	1.09053	1.02655	.95560	1.01489	1.06145	-1.09426
2.000	-2.00000	2060.47052	1069.56143	1.12191	1.09163	1.03644	.96324	1.01593	1.05896	-1.09550
2.000	-2.00000	2060.47052	1069.56143	1.11945	1.09079	1.04324	.96336	1.01878	1.05791	-1.09748
2.000	-2.00000	2060.55393	1069.60732	1.11701	1.08976	1.04682	.96706	1.01774	1.05576	-1.09331
2.000	-2.00000	2060.33516	1069.33524	1.11015	1.08397	1.04479	.96193	1.01388	1.05046	-1.10152
2.000	-2.00000	2060.44046	1069.54353	1.10377	1.07799	1.03402	.95329	1.00625	1.04158	-1.10232
2.000	-2.00000	2060.15353	1069.39586	1.09598	1.06933	1.01677	.94511	.99553	1.03227	-1.10490
2.000	-2.00000	2060.04486	1069.34026	1.09709	1.05901	1.00246	.93531	.98483	1.02397	-1.10642
2.000	-2.00000	2060.19208	1069.09767	.00217	.00340	.00544	.00211	.00059	.00105	-1.03201

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEE = 2593.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
2.500	-2.00000	1497.77222	659.27209	1.17890	1.12598	1.00482	.87096	.96747	1.03741	-.07602
ALPHA	.000	1497.76450	659.26828	1.18394	1.13247	1.01502	.87504	.97572	1.04377	-.07581
2.000	-2.00000	1497.76714	659.27001	1.18938	1.14013	1.03016	.89012	.98279	1.05405	-.07691
4.000	-2.00000	1497.74226	659.26281	1.19304	1.14818	1.04829	.90179	.99269	1.05979	-.07800
6.000	-2.00000	1497.75372	659.26557	1.19327	1.15180	1.05766	.91600	1.00057	1.06199	-.07850
8.000	-2.00000	1497.67010	659.22676	1.19503	1.15556	1.06663	.92637	1.00496	1.06646	-.08182
10.000	-2.00000	1498.01534	659.37941	1.19287	1.15745	1.08266	.93335	1.01012	1.05597	-.08552
12.000	-2.00000	1494.69432	657.83693	1.18736	1.15315	1.08955	.94074	1.01339	1.05590	-.08677
14.000	-2.00000	1494.60835	657.85705	1.17815	1.14568	1.08765	.94597	1.01555	1.05561	-.08677
16.000	-2.00000	1495.08378	658.07857	1.16893	1.13630	1.08156	.94370	1.01049	1.05871	-.08860
18.000	-2.00000	1494.25939	657.70778	1.16077	1.12774	1.07562	.93871	1.00308	1.04929	-.09002
20.000	-2.00000	1494.70457	657.90915	1.15102	1.11821	1.07012	.93035	.99122	1.03772	-.08938
22.000	-2.00000	1494.34550	658.01747	1.13968	1.10888	1.05846	.92003	.97737	1.02567	-.09072
GRADIENT	.00000	-.00127	-.00052	.00262	.00354	.00653	.00479	.00363	.00416	-.00072

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
3.000	-2.00000	1942.79845	567.38300	1.29850	1.21618	1.02213	.82437	.96618	1.07274	-.05553
ALPHA	.000	1939.95528	565.57606	1.30334	1.22433	1.03895	.83084	.97339	1.08025	-.05518
2.000	-2.00000	1937.25540	565.78629	1.30653	1.23099	1.05397	.84371	.98393	1.08740	-.05730
4.000	-2.00000	1932.01018	564.33104	1.30751	1.23815	1.08491	.86024	.99703	1.09559	-.05709
6.000	-2.00000	1931.75623	564.24371	1.30803	1.24481	1.09750	.86617	1.01282	1.10535	-.05773
8.000	-2.00000	1932.19310	564.34621	1.30667	1.24952	1.11093	.89959	1.02041	1.11075	-.06011
10.000	-2.00000	1932.51704	564.41837	1.30419	1.25478	1.13139	.91011	1.02397	1.11075	-.06048
12.000	-2.00000	1931.50789	563.96330	1.29526	1.24484	1.14194	.92368	1.03255	1.11517	-.06248
14.000	-2.00000	1932.10713	564.17945	1.28353	1.23135	1.13905	.93285	1.03892	1.11541	-.06309
16.000	-2.00000	1931.43526	564.00479	1.27208	1.21735	1.12999	.93820	1.03681	1.10935	-.06309
18.000	-2.00000	1931.66756	564.08523	1.26037	1.20477	1.11927	.93355	1.03030	1.10101	-.06095
20.000	-2.00000	1932.01346	564.17412	1.24541	1.18991	1.10932	.92305	1.01555	1.08436	-.06095
22.000	-2.00000	1931.72012	564.10132	1.22658	1.17324	1.09707	.90972	.99709	1.06745	-.06095
GRADIENT	.00000	-1.38574	-.39918	.00201	.00370	.00795	.00484	.00444	.00557	-.00074

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(BETH04) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2537.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

PN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	OCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
3.500	.000	-2.00000	2608.07135	520.74471	1.33727	1.22812	.97867	.75147	.93692	1.06952	-.03824
2.000	2.000	-2.00000	2609.47937	521.03742	1.34134	1.24252	.99763	.77220	.94675	1.08284	-.04019
4.000	4.000	-2.00000	2610.52899	521.24570	1.34418	1.25558	1.02663	.79165	.96414	1.09589	-.04008
6.000	6.000	-2.00000	2614.11072	521.96236	1.34194	1.25969	1.06239	.80900	.97468	1.09555	-.03967
8.000	8.000	-2.00000	2614.27722	521.95606	1.34062	1.26821	1.07606	.83725	.93129	1.11085	-.04114
10.000	10.000	-2.00000	2619.19557	522.98805	1.33340	1.25834	1.09073	.85579	1.00548	1.12054	-.04114
12.000	12.000	-2.00000	2615.71823	522.27669	1.33284	1.27067	1.11828	.87476	1.01704	1.12757	-.04314
14.000	14.000	-2.00000	2617.89397	522.71407	1.32079	1.25569	1.12396	.89053	1.02687	1.12997	-.04312
16.000	16.000	-2.00000	2615.78174	522.26640	1.30698	1.23749	1.12022	.90195	1.03531	1.13102	-.04354
18.000	18.000	-2.00000	2617.10403	522.56139	1.29727	1.22341	1.11165	.90549	1.02451	1.13200	-.04266
20.000	20.000	-2.00000	2615.61575	522.25275	1.28222	1.20618	1.09759	.90272	1.00823	1.09622	-.04305
22.000	22.000	-2.00000	2619.48699	523.04321	1.26473	1.18966	1.08379	.89139	1.00823	1.07754	-.04359
24.000	24.000	-2.00000	2624.04565	523.94328	1.24149	1.16656	1.06745	.87485	.98492	1.07754	-.04359
GRADIENT		.00000	.61442	.12524	.00173	.00652	.01159	.0073-	.03580	.00659	-.00021

(BE7H05) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.600	.0000	.0000	2635.13434	568.96451	1.00225	1.00272	1.00132	.99902	1.00115	1.00015	.43088
.800	.0000	.0000	2636.45282	569.02750	1.00164	1.00162	1.00140	1.00102	.99996	1.00012	.66148
2.000	.0000	.0000	2638.36844	569.52808	1.00180	1.00215	1.00170	1.00290	1.00102	.99959	.80449
4.000	.0000	.0000	2635.83572	568.79259	1.00016	1.00093	1.00320	1.00198	1.00120	1.00300	.89356
6.000	.0000	.0000	2635.20316	568.95142	1.00169	1.00053	1.00066	.99967	1.00069	1.00097	.93169
8.000	.0000	.0000	2635.93494	568.83035	1.00054	1.00194	.99934	.99912	1.00133	1.00009	.95308
10.000	.0000	.0000	2635.46613	568.67661	.99978	.99941	.99996	.99923	1.00066	.99771	.97565
12.000	.0000	.0000	2636.11769	568.91691	1.00139	1.00002	1.00059	.99977	.99924	.99775	.98424
14.000	.0000	.0000	2636.08533	569.92236	.99986	.99843	.99998	.99953	.99960	.99781	.99624
16.000	.0000	.0000	2632.61653	569.61655	.99579	.99700	.99563	.99709	.99731	.99556	.98755
18.000	.0000	.0000	2634.47891	568.35359	.99031	.93367	.98323	.99101	.99225	.99465	.93362
20.000	.0000	.0000	2630.10681	567.55264	.98119	.98508	.97461	.98104	.98690	.99017	.99266
22.000	.0000	.0000	2629.67941	567.94977	.96201	.96937	.94345	.96256	.97576	.97716	.99234
24.000	.0000	.0000	2629.55853	.14089	.00011	.00014	.00009	.00097	.00003	.00014	.09340

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.900	.0000	.0000	2113.98108	854.05185	.99906	1.00012	.99987	.99925	.99922	.99845	.89148
2.000	.0000	.0000	2112.05286	853.27899	.99939	.99912	.99946	1.00029	1.00101	.99940	.93489
4.000	.0000	.0000	2118.18839	855.83621	1.00033	.99861	.99860	.99882	.99922	.99873	.95937
6.000	.0000	.0000	2114.64374	854.34464	.99876	.99868	.99781	.99760	.99797	.99766	.97373
8.000	.0000	.0000	2110.03122	852.45758	1.00053	.99877	.99853	.99959	.99967	.99975	.98319
10.000	.0000	.0000	2112.73551	853.61572	1.00155	1.00048	1.00090	1.00056	1.00099	1.00019	.93568
12.000	.0000	.0000	2114.63835	854.43839	.99549	.99986	1.00035	.99910	.99975	.99910	.99335
14.000	.0000	.0000	2117.13347	855.41324	.99817	.99860	.99775	.99791	.99799	.99799	.99131
16.000	.0000	.0000	2116.02139	854.95329	.99795	.99984	.99820	.99819	.99902	.99872	.93169
18.000	.0000	.0000	2113.29510	853.82172	.99644	.99790	.99746	.99637	.99809	.99809	.99200
20.000	.0000	.0000	2111.35150	853.10052	.99337	.99540	.99351	.99336	.99561	.99505	.99017
22.000	.0000	.0000	2110.72241	852.92499	.98865	.99174	.98671	.98831	.99155	.99248	.99001
24.000	.0000	.0000	2113.14288	853.75931	.97814	.98337	.97180	.97784	.98480	.98639	.96900
GRADIENT	.00000	.00000	.005184	.44509	.00024	.00038	.00032	.00011	.00005	.00007	.01712

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TABULATED DATA - OA16: (ARC 11-97-87-094)
 ARC 11-97-87-094 OA16: OREITER + RAKES

(EE7405) (02 AUG 76)

PARAMETRIC DATA

BETA	=	.000	ELEVON	=	.000
AILRON	=	.000	BDFLAP	=	-7.170

REFERENCE DATA

2690.0000	50. FT.	XMRP	=	1076.0800	IN. Y0
474.8300	IN.	YMRP	=	0.0000	IN. X0
935.0900	IN.	ZMRP	=	375.0000	IN. Z0
.0300			=		

BN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	P5/QC	P16/QC	P77/QC
1.200	0.0000	2003.78401	1166.30751	1.00134	1.00119	1.00332	1.00057	1.00016	99986	1.00010
ALPHA	0.000	0.0000	1165.34581	1.00251	1.00188	1.00041	1.00048	1.00133	99155	99701
2.000	0.0000	2006.93002	1165.05822	1.02411	1.00149	1.00033	1.00039	1.00110	1.00121	1.00346
3.000	0.0000	2006.95340	1165.05822	1.00040	1.00330	1.00126	1.00045	1.00164	1.00243	1.00343
4.000	0.0000	2012.21327	1167.47879	1.00230	1.00330	1.00126	1.00039	1.00164	1.00243	1.00343
5.000	0.0000	2012.21327	1167.27747	1.00133	1.00225	1.00127	1.00032	1.00107	1.00235	1.00343
6.000	0.0000	2011.68902	1167.41281	1.00142	1.00218	1.00038	99982	99979	1.00235	1.00343
7.000	0.0000	2012.05743	1167.41281	1.00142	1.00218	1.00038	1.00012	1.00044	1.00235	1.00343
8.000	0.0000	2012.05743	1167.71867	1.00268	1.00261	1.00164	1.00164	99957	99959	1.00343
9.000	0.0000	2012.78661	1167.79337	1.00133	1.00133	1.00030	99938	99921	99938	1.00343
10.000	0.0000	2012.78661	1167.92246	1.00223	1.00133	99912	99843	99778	99812	1.00410
11.000	0.0000	2011.94118	1167.92246	1.00074	1.00038	99834	99738	99778	99812	1.00410
12.000	0.0000	2011.94118	1167.92246	99932	99998	99834	99738	99778	99812	1.00410
13.000	0.0000	2012.20630	1167.58176	99932	99998	99834	99738	99778	99812	1.00410
14.000	0.0000	2012.50417	1170.38017	99641	99759	99545	99430	99462	99593	1.00410
15.000	0.0000	2012.50417	1170.38017	99641	99759	99545	99430	99462	99593	1.00410
16.000	0.0000	2012.94965	1170.20888	99296	99485	99185	99217	99208	99302	1.00758
17.000	0.0000	2012.94965	1170.20888	99296	99485	99185	99217	99208	99302	1.00758
18.000	0.0000	2012.94965	1170.20888	99296	99485	99185	99217	99208	99302	1.00758
19.000	0.0000	2012.94965	1170.20888	99296	99485	99185	99217	99208	99302	1.00758
20.000	0.0000	2012.94965	1170.20888	99296	99485	99185	99217	99208	99302	1.00758
21.000	0.0000	2012.94965	1170.20888	99296	99485	99185	99217	99208	99302	1.00758
22.000	0.0000	2012.94965	1170.20888	99296	99485	99185	99217	99208	99302	1.00758

GRADIENT INTERVAL = -5.00/ 5.00

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TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(BE7405) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BBFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
	.0000	.00000	1580.54595	1045.16287	1.01073	1.00191	.93501	.98504	.99683	1.00865	-1.0568
	2.000	.00000	1581.95228	1046.11082	1.01197	.99761	.98875	.98872	1.00024	1.00993	-1.0485
	4.000	.00000	1581.60306	1045.84989	1.01250	.99947	.98950	.99301	1.00340	1.01324	-1.0569
	6.000	.00000	1581.71835	1045.91879	1.01436	1.00513	.99199	.99401	1.00402	1.01293	-1.0993
	8.000	.00000	1582.28732	1046.51267	1.02042	1.01254	.99702	.99700	1.00521	1.01531	-1.1277
	10.000	.00000	1584.01578	1047.40005	1.01938	1.01280	.99742	.99873	1.00529	1.01457	-1.1545
	12.000	.00000	1584.74577	1047.86478	1.01796	1.01124	.99813	.99104	1.00296	1.01375	-1.1219
	14.000	.00000	1584.30254	1047.57710	1.01623	1.01123	.99900	.99730	1.00530	1.01407	-1.2536
	16.000	.00000	1584.53708	1047.73572	1.01300	1.00791	.99713	1.00150	1.00737	1.01416	-1.2734
	18.000	.00000	1585.24020	1048.17926	1.00869	1.00110	.98798	.99252	1.00041	1.00939	-1.2986
	20.000	.00000	1585.26917	1048.20312	1.00490	.99867	.98121	.98302	.99331	1.00450	-1.3092
	22.000	.00000	1584.67165	1047.81394	1.00176	.99551	.98080	.97857	.99079	1.00081	-1.3518
	24.000	.00000	1584.25276	1047.53178	.99713	.99059	.97625	.97575	.98754	.99582	-1.4717
	GRADIENT	.00000	.26428	.17171	.00044	-.00051	.00087	.00199	.00164	.00117	.00025

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
	.000	.00000	1657.74608	1072.15997	1.03232	1.01493	.98137	.98587	1.00959	1.03117	-1.2425
	2.000	.00000	1657.99976	1072.31970	1.03543	1.01459	.97907	.98859	1.01355	1.03407	-1.2440
	4.000	.00000	1657.20947	1071.81404	1.03730	1.01768	.98099	.99395	1.01697	1.03721	-1.2532
	6.000	.00000	1656.47335	1071.34035	1.04138	1.02822	.99592	.98897	1.02096	1.03884	-1.2683
	8.000	.00000	1657.27576	1071.85733	1.04478	1.02925	1.00439	.99977	1.02132	1.03855	-1.3179
	10.000	.00000	1657.32759	1071.89681	1.04331	1.03168	1.00355	1.00577	1.02372	1.04054	-1.3629
	12.000	.00000	1656.50333	1071.35353	1.04455	1.03188	1.01177	1.00033	1.02440	1.04352	-1.3714
	14.000	.00000	1657.07622	1071.72599	1.04214	1.03141	1.01297	1.00870	1.02525	1.04103	-1.3808
	16.000	.00000	1656.60495	1071.42451	1.03500	1.02614	1.01153	1.01264	1.02551	1.03974	-1.4152
	18.000	.00000	1656.32849	1071.24562	1.03110	1.01912	.99983	1.00593	1.02222	1.03724	-1.4355
	20.000	.00000	1656.80373	1071.54903	1.02656	1.01470	.98347	.98833	1.02169	1.03634	-1.4655
	22.000	.00000	1657.27547	1071.85149	1.02093	1.01001	.98425	.98232	1.01432	1.03040	-1.5206
	24.000	.00000	1657.16254	1071.77823	1.01291	1.00253	.97446	.98104	1.00361	1.01992	-1.5650
	GRADIENT	.00000	-.13413	-.08649	.00117	.00069	-.00310	.00232	.00182	.00151	-.00027

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(BE7-H05) 1 02 AUG 76

PARAMETRIC DATA

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -.050
 -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	BETA	PT	PT	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	.000	1847.14075	1094.43971	1.04514	1.01061	.95748	.97544	1.02169	1.05926	-.10555
2.000	.00000	1846.77534	1094.21881	1.05022	1.02204	.96686	.98034	1.02739	1.06334	-.10504
4.000	.00000	1847.06462	1094.37987	1.05572	1.02836	.97666	.98257	1.02710	1.06331	-.10526
6.000	.00000	1846.70287	1094.17278	1.05846	1.03978	.9825	.98920	1.03342	1.06750	-.10582
8.000	.00000	1846.64723	1094.25835	1.05738	1.03014	.98669	.99272	1.03405	1.06705	-.10781
10.000	.00000	1847.73077	1094.84930	1.06317	1.03545	.99115	.99715	1.03759	1.06644	-.11162
12.000	.00000	1847.06197	1094.41403	1.06613	1.03473	1.00134	1.00098	1.04129	1.06740	-.11359
14.000	.00000	1846.76268	1094.21408	1.06525	1.03503	1.00005	1.00333	1.04154	1.06667	-.11525
16.000	.00000	1846.79220	1094.26558	1.06188	1.03253	1.00490	1.00811	1.03708	1.06283	-.11933
18.000	.00000	1846.62433	1094.14917	1.04855	1.02899	.98704	1.00621	1.03729	1.06135	-.11552
20.000	.00000	1846.86009	1094.30649	1.04409	1.02668	.98493	1.00336	1.03322	1.05921	-.12066
22.000	.00000	1846.82697	1094.29134	1.03579	1.01528	.97373	1.00124	1.02767	1.05422	-.12415
24.000	.00000	1846.84973	1093.68992	1.02603	1.00630	.96538	.98509	1.02223	1.04755	-.12941
GRADIENT	.00000	-.01495	-.01495	.00264	.00444	.00479	.00178	.00136	.00151	.00043

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	BETA	PT	PT	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	.000	2059.62274	1069.13588	1.06731	1.02022	.93287	.95222	1.02903	1.08064	-.08912
2.000	.00000	2059.69022	1069.17059	1.07272	1.02646	.94367	.95523	1.03380	1.08734	-.09077
4.000	.00000	2059.24142	1069.93941	1.07659	1.03569	.95510	.96184	1.03235	1.08765	-.08965
6.000	.00000	2059.67896	1069.16425	1.08317	1.04179	.96993	.97140	1.03953	1.09162	-.08876
8.000	.00000	2059.63947	1069.14375	1.08617	1.04714	.97698	.98054	1.04928	1.09504	-.08933
10.000	.00000	2059.11798	1069.87497	1.08894	1.05168	.99091	.99280	1.05359	1.09779	-.09344
12.000	.00000	2059.74341	1069.68224	1.08745	1.05612	.99946	.99555	1.05450	1.09441	-.09570
14.000	.00000	2059.36762	1069.00357	1.08516	1.05709	1.00620	1.00175	1.05631	1.09441	-.09774
16.000	.00000	2059.83833	1069.73170	1.08353	1.05865	1.01073	1.00606	1.05554	1.09105	-.09925
18.000	.00000	2058.83833	1069.73170	1.07884	1.04933	.98735	.98962	1.05381	1.08651	-.10358
20.000	.00000	2059.20343	1069.91862	1.07121	1.04233	.97312	.98357	1.04751	1.08398	-.10152
22.000	.00000	2058.94348	1069.78462	1.05884	1.03045	.96280	.96957	1.03973	1.07498	-.10378
24.000	.00000	2058.85312	1069.73825	1.04905	1.01815	.96280	.98110	1.03233	1.06955	-.10552
GRADIENT	.00000	-.09532	-.04911	.00234	.00387	.00356	.00241	.00063	.00180	.00013

(BETHDS) 1 02 AUG 78

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AIRLON = .000 ESFLAP = -7.170

REFERENCE DATA

SREF = 2692.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.000	.0000	.0000	1495.02940	658.00838	1.11824	1.05881	94394	92709	1.03003	1.05976	-0.7857
2.000	.0000	.0000	1495.07198	658.02643	1.12325	1.06774	95253	93497	1.03641	1.10368	-0.7774
4.000	.0000	.0000	1494.35016	657.70238	1.12649	1.07597	95861	94123	1.03826	1.11087	-0.8057
6.000	.0000	.0000	1494.34654	657.97271	1.12914	1.08008	96504	94959	1.04645	1.11611	-0.7851
8.000	.0000	.0000	1495.11034	659.04583	1.13437	1.08630	93446	95351	.05582	1.11846	-0.7679
10.000	.0000	.0000	1494.33228	657.63749	1.13795	1.09373	1.00463	91693	.05599	1.12329	-0.655
12.000	.0000	.0000	1494.99853	657.92431	1.13676	1.09718	1.02117	93628	1.07101	1.12303	-0.8145
14.000	.0000	.0000	1494.32782	657.69506	1.13502	1.09635	1.02919	93659	1.07293	1.12303	-0.8308
16.000	.0000	.0000	1494.83258	657.95369	1.13089	1.09230	1.03065	1.00222	1.07416	1.11883	-0.8543
18.000	.0000	.0000	1494.35973	657.71090	1.12388	1.08905	1.03314	1.00733	1.07416	1.11883	-0.8503
20.000	.0000	.0000	1494.85465	657.93397	1.11398	1.08063	1.02846	1.00347	.06625	1.11237	-0.8698
22.000	.0000	.0000	1494.36290	657.71252	1.10193	1.06756	1.01635	99206	1.05534	1.10315	-0.8892
24.000	.0000	.0000	1494.88379	657.94775	1.08560	1.05376	1.00459	98715	1.04530	1.09611	-0.8951
GRADIENT	.00000	.00000	-1.5982	-0.07650	.00206	.00429	.00017	.00353	.00206	.00278	-0.00100

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.000	.0000	.0000	1940.57853	565.06326	1.21204	1.11554	93306	90344	1.06154	1.16559	-0.5572
2.000	.0000	.0000	1940.33086	565.97689	1.21706	1.12865	94641	91147	1.06520	1.17718	-0.5601
4.000	.0000	.0000	1939.42018	565.72091	1.22353	1.14231	95623	92284	1.07328	1.18450	-0.5787
6.000	.0000	.0000	1939.55391	565.84290	1.22508	1.14746	95329	92322	.06578	1.19411	-0.5779
8.000	.0000	.0000	1938.91022	565.63232	1.23043	1.15551	1.00821	92325	.06591	1.19547	-0.5946
10.000	.0000	.0000	1939.71490	565.62236	1.23144	1.16187	1.02593	91640	1.05540	1.19547	-0.5946
12.000	.0000	.0000	1939.98939	565.72841	1.23244	1.17143	1.05042	90620	1.06113	1.20151	-0.5956
14.000	.0000	.0000	1939.37943	565.78307	1.22520	1.16744	1.06470	90620	1.06470	1.20151	-0.5956
16.000	.0000	.0000	1939.79555	565.63618	1.22530	1.15832	1.06470	90620	1.06470	1.20151	-0.5956
18.000	.0000	.0000	1939.37152	565.80401	1.20530	1.15036	1.06470	90620	1.06470	1.20151	-0.5956
20.000	.0000	.0000	1939.61790	565.87935	1.18724	1.13777	1.05324	90620	1.05324	1.18724	-0.5956
22.000	.0000	.0000	1939.82949	565.82666	1.17012	1.11681	1.03300	90620	1.03300	1.17012	-0.5956
24.000	.0000	.0000	1939.35516	565.80502	1.14997	1.09217	1.03300	90620	1.03300	1.14997	-0.5956
GRADIENT	.00000	.00000	-1.28951	-0.05559	.00287	.00663	.00000	.00429	.00206	.00278	-0.00100

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(SE7H05) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDCLAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
3.500	300	.00000	2633.31985	526.99553	1.23878	1.11476	.87933	.64415	1.03868	1.17977	-.03855
2.000	200	.00000	2640.01686	527.13617	1.24802	1.13222	.89587	.85319	1.04487	1.19175	-.03771
4.000	400	.00000	2640.89926	527.31257	1.25204	1.14654	.92095	.86927	1.05799	1.19578	-.03875
6.000	600	.00000	2644.64435	528.05621	1.25978	1.15247	.95551	.86533	1.06667	1.20382	-.04013
8.000	800	.00000	2646.62357	528.45953	1.26050	1.16284	.97459	.91700	1.09940	1.21284	-.03966
10.000	1000	.00000	2646.80231	528.49525	1.25714	1.16559	.98604	.93765	1.10304	1.21849	-.04057
12.000	1200	.00000	2647.36554	529.60566	1.25559	1.17681	1.02473	.95941	1.11797	1.22298	-.04167
14.000	1400	.00000	2652.42538	529.60644	1.24206	1.16928	1.03287	.97081	1.12071	1.22253	-.04264
16.000	1600	.00000	2653.07376	529.73420	1.23106	1.15809	1.04338	.98525	1.12501	1.22377	-.04362
18.000	1800	.00000	2653.25250	529.18677	1.21394	1.14475	1.03735	.98747	1.11890	1.21564	-.04416
20.000	2000	.00000	2651.57239	529.43937	1.19690	1.12766	1.02159	.98494	1.10799	1.20652	-.04354
22.000	2200	.00000	2652.55411	529.63333	1.17495	1.10649	1.00742	.97784	1.09275	1.19324	-.04366
24.000	2400	.00000	2651.96234	529.51771	1.15125	1.08580	.99017	.96370	1.07577	1.17844	-.04270
GRADIENT		.00000	.39504	.07776	.00381	.00794	.01041	.00628	.00483	.00425	-.00005

(BE7H06) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .603	BETA	PT	CCO/P	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	2.00000	2623.0827	557.2525	1.00178	1.00227	1.00091	1.00153	1.00213	1.00168	.94697
2.000	2.00000	2625.4954	555.5124	1.00213	1.00213	1.00033	1.00179	1.00291	1.00200	.95526
4.000	2.00000	2627.7654	567.2655	1.00221	1.00269	1.00165	1.00027	1.00225	1.00244	.97894
6.000	2.00000	2627.0014	567.0310	1.00173	1.00099	1.00184	1.00052	1.00134	1.00122	.98655
8.000	2.00000	2626.9713	555.9757	1.00126	1.00109	1.00133	1.00275	1.00125	1.00275	.99091
10.000	2.00000	2626.3042	553.6888	1.00226	1.00106	1.00120	1.00142	1.00052	1.00214	.99533
12.000	2.00000	2626.3122	556.6319	1.00240	1.00255	1.00295	1.00111	1.00050	1.00250	.99527
14.000	2.00000	2626.9917	567.5412	1.00202	1.00134	1.00121	1.00197	1.00113	1.00197	.99494
16.000	2.00000	2627.4427	567.2053	1.00202	1.00134	1.00121	1.00197	1.00113	1.00197	.99532
18.000	2.00000	2626.3105	556.8459	1.00164	1.00099	1.00087	1.00045	1.00028	1.00119	.99255
20.000	2.00000	2626.6553	556.0751	1.00164	1.00133	1.00073	1.00045	1.00028	1.00119	.99098
22.000	2.00000	2624.2993	555.3346	1.00077	1.00086	1.00057	1.00045	1.00028	1.00119	.99372
24.000	2.00000	2623.7317	555.1947	1.00000	1.00098	1.00093	1.00045	1.00028	1.00119	.99542
GRADIENT	.00000	-.07975	.01165	.00011	.00010	.00019	-.00019	.00003	.00019	.00799

MACH = .900	BETA	PT	CCO/P	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	2.00000	2112.4855	853.5635	.99886	.99941	.99899	.99926	.99933	.99904	.98540
2.000	2.00000	2115.8214	954.8715	.99914	.99935	.99893	1.00084	.99968	.99904	.99168
4.000	2.00000	2115.1513	953.2442	.99939	.99980	1.00060	.99999	.99988	.99995	.99296
6.000	2.00000	2117.6974	956.0919	.99979	.99991	1.00035	.99999	1.00015	.99995	.99593
8.000	2.00000	2114.9444	954.4213	.99998	1.00009	1.00013	.99985	1.00012	.99978	.99782
10.000	2.00000	2113.0748	954.4213	.99998	.99995	.99955	.99970	1.00005	.99979	.99559
12.000	2.00000	2115.0755	954.4213	.99998	.99995	.99955	.99970	1.00005	.99979	.99559
14.000	2.00000	2114.6820	954.4213	.99998	.99997	.99946	.99977	.99965	.99993	.99548
16.000	2.00000	2116.9053	955.2867	.99992	.99996	.99895	.99892	.99895	.99920	.99911
18.000	2.00000	2117.3959	955.5114	.99994	.99841	.99670	.99725	.99906	.99809	.99691
20.000	2.00000	2115.9106	954.6313	.99994	.99922	.99254	.99449	.99579	.99474	.99434
22.000	2.00000	2115.4463	952.6458	.99991	.99912	.98657	.99135	.99374	.99356	.99264
24.000	2.00000	2109.0990	952.1700	.99991	.99958	.97095	.98385	.98894	.98952	.98725
GRADIENT	.00000	1.04930	.01165	.00008	.00010	.00040	.00018	.00035	.00023	.00189

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(BETH06) (C2 AUG 76)

TABULATED DATA - 04161 : ARC 11-97-87-094 :

ARC 11-97-87-094 04161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1075.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200	BETA	PT	CCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	2.00000	2000.5542	1160.1830	1.00128	1.00043	1.00007	1.00038	1.00081	1.00026	1.00060
2.000	2.00000	2002.0026	1160.0430	1.00176	1.00066	1.00076	1.00006	1.00030	1.00161	1.00090
4.000	2.00000	2003.0000	1160.1404	1.00208	1.00162	1.00117	1.00125	1.00184	1.00314	1.00347
6.000	2.00000	2004.0000	1160.2400	1.00235	1.00150	1.00269	1.00188	1.00273	1.00279	1.00279
8.000	2.00000	2005.0000	1160.3400	1.00265	1.00135	1.00251	1.00177	1.00213	1.00247	1.00247
10.000	2.00000	2006.0000	1160.4400	1.00297	1.00132	1.00235	1.00173	1.00193	1.00290	1.00290
12.000	2.00000	2007.0000	1160.5400	1.00328	1.00121	1.00212	1.00144	1.00236	1.00276	1.00276
14.000	2.00000	2008.0000	1160.6400	1.00358	1.00115	1.00122	1.00144	1.00217	1.00261	1.00261
16.000	2.00000	2009.0000	1160.7400	1.00387	1.00107	1.00008	1.00083	1.00157	1.00193	1.00193
18.000	2.00000	2010.0000	1160.8400	1.00416	1.00097	1.00000	1.00009	1.00009	1.00064	1.00064
20.000	2.00000	2011.0000	1160.9400	1.00445	1.00091	1.00000	1.00000	1.00000	1.00000	1.00000
22.000	2.00000	2012.0000	1161.0400	1.00474	1.00081	1.00000	1.00000	1.00000	1.00000	1.00000
24.000	2.00000	2013.0000	1161.1400	1.00503	1.00074	1.00000	1.00000	1.00000	1.00000	1.00000
GRADIENT	2.00000	2014.0000	1161.2400	1.00532	1.00067	1.00000	1.00000	1.00000	1.00000	1.00000

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.400	BETA	PT	CCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	2.00000	2014.20187	1316.73218	1.00017	1.00257	1.00303	1.00284	1.00381	1.00370	1.00302
2.000	2.00000	2015.18904	1317.92126	1.00088	1.00309	1.00316	1.00249	1.00393	1.00377	1.00306
4.000	2.00000	2016.14493	1315.15529	1.00162	1.00374	1.00334	1.00267	1.00401	1.00385	1.00353
6.000	2.00000	2017.07119	1313.89323	1.00233	1.00442	1.00399	1.00355	1.00454	1.00417	1.00399
8.000	2.00000	2018.00000	1312.00722	1.00307	1.00515	1.00459	1.00401	1.00517	1.00486	1.00456
10.000	2.00000	2019.00000	1310.41476	1.00379	1.00585	1.00538	1.00465	1.00583	1.00553	1.00523
12.000	2.00000	2020.00000	1308.99800	1.00448	1.00654	1.00601	1.00527	1.00656	1.00622	1.00580
14.000	2.00000	2021.00000	1307.73022	1.00518	1.00724	1.00668	1.00594	1.00724	1.00691	1.00648
16.000	2.00000	2022.00000	1306.61118	1.00588	1.00794	1.00738	1.00664	1.00794	1.00761	1.00718
18.000	2.00000	2023.00000	1305.63302	1.00658	1.00864	1.00808	1.00734	1.00864	1.00831	1.00788
20.000	2.00000	2024.00000	1304.79555	1.00728	1.00934	1.00878	1.00804	1.00934	1.00901	1.00858
22.000	2.00000	2025.00000	1304.09822	1.00798	1.01004	1.00948	1.00874	1.01004	1.00971	1.00928
24.000	2.00000	2026.00000	1303.53121	1.00868	1.01074	1.01018	1.00944	1.01074	1.01041	1.00998
GRADIENT	2.00000	2027.00000	1303.09460	1.00938	1.01144	1.01088	1.01014	1.01144	1.01111	1.01068

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(BETH06) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 SOFLAP = -7.170

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA										
.000	2.00000	1568.49995	1036.97801	1.00122	.99124	.97832	1.00226	1.01390	1.02451	-1.1628
2.000	2.00000	1570.76030	1038.46596	1.00134	.98856	.97926	1.00348	1.01496	1.02497	-1.1512
4.000	2.00000	1572.23036	1039.32613	1.00348	.99237	.98212	1.00579	1.01819	1.02705	-1.1557
6.000	2.00000	1572.37077	1039.43916	1.00634	.99945	.98724	1.00908	1.02134	1.02917	-1.1244
8.000	2.00000	1573.73795	1040.33282	1.01179	1.00428	.98990	1.01151	1.02187	1.02959	-1.1642
10.000	2.00000	1573.65640	1040.31351	1.00993	1.00425	.98990	1.01189	1.02107	1.02823	-1.255
12.000	2.00000	1572.64693	1039.63991	1.01119	1.00496	.98202	1.01511	1.02285	1.03035	-1.2641
14.000	2.00000	1572.69780	1039.67572	1.00729	1.00145	.98978	1.01197	1.01985	1.02872	-1.2922
16.000	2.00000	1572.12041	1039.27925	.99985	.99227	.98051	1.01267	1.01915	1.02760	-1.3155
18.000	2.00000	1571.97598	1039.19070	.99531	.98681	.97518	1.01351	1.01915	1.02647	-1.3521
20.000	2.00000	1574.13732	1040.62433	.98702	.98161	.97044	1.01048	1.01534	1.02477	-1.4207
22.000	2.00000	1576.42464	1042.11156	.97980	.97454	.96102	1.00565	1.01160	1.01898	-1.5239
24.000	2.00000	1576.99555	1042.49995	.97545	.96785	.95088	.99988	1.00577	1.01077	-1.5239
GRADIENT	.00000	.92511	.58703	.00057	.00028	.00095	.00113	.00107	.00053	.00018

PN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA										
.000	2.00000	1656.77100	1071.52611	1.00931	.99178	.96282	1.00539	1.02889	1.04773	-1.2714
2.000	2.00000	1655.31691	1070.59709	1.01404	.99992	.96957	1.00861	1.03207	1.05048	-1.2824
4.000	2.00000	1655.46857	1070.69418	1.01614	1.00093	.97295	1.01159	1.03611	1.05390	-1.2737
6.000	2.00000	1655.59386	1070.77524	1.02084	1.00585	.97821	1.01488	1.03695	1.05499	-1.2654
8.000	2.00000	1655.17559	1071.14615	1.02255	1.00741	.98237	1.01515	1.03739	1.05419	-1.2928
10.000	2.00000	1656.23152	1071.18300	1.02096	1.00292	.98549	1.02103	1.03705	1.05624	-1.3223
12.000	2.00000	1656.29276	1071.22061	1.01920	1.00747	.98855	1.02753	1.04324	1.05949	-1.3595
14.000	2.00000	1656.36491	1071.26796	1.01594	1.00318	.98715	1.02831	1.04458	1.06115	-1.3932
16.000	2.00000	1655.64330	1070.81123	1.01235	.99901	.97756	1.03470	1.04752	1.06077	-1.4135
18.000	2.00000	1655.62935	1071.11641	1.00708	.99189	.96488	1.03184	1.04429	1.05564	-1.4257
20.000	2.00000	1655.39303	1071.68838	.99962	.98182	.96488	1.02473	1.03761	1.05074	-1.4300
22.000	2.00000	1655.98910	1071.02734	.99092	.98001	.95242	1.01588	1.03364	1.04639	-1.4622
24.000	2.00000	1655.63131	1070.81276	.98219	.97373	.94487	1.00861	1.03054	1.04242	-1.5253
GRADIENT	.00000	-.32560	-.23799	.00156	.00229	.00253	.00155	.00181	.00154	-.00005

TABULATED DATA - 0A161 (ARC 11-97-87-094)

(BE7H06) (02 AUG 76)

ARC 11-97-87-094 0A161 ORBITER + RAKES

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 ATLON = .000 EDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.000	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
ALPHA	2.00000	1845.38238	1093.83054	1.00758	.97047	.92173	.99897	1.04726	1.08287	-1.0791
.000	2.00000	1845.63019	1093.67549	1.00923	.97656	.92410	1.00568	1.05157	1.08636	-1.0731
2.000	2.00000	1844.79626	1093.10722	1.01259	.98176	.93225	1.00804	1.05520	1.08929	-1.0758
4.000	2.00000	1844.09550	1092.65437	1.01768	.98819	.94356	1.01651	1.05849	1.09170	-1.0793
6.000	2.00000	1845.05612	1093.25320	1.02269	.99645	.94976	1.01906	1.05962	1.09199	-1.0833
8.000	2.00000	1845.34762	1093.83081	1.02520	.99940	.95994	1.02096	1.06093	1.08965	-1.1082
10.000	2.00000	1845.33353	1093.45602	1.02174	.99815	.96201	1.03215	1.06442	1.09204	-1.1320
12.000	2.00000	1845.05315	1093.65130	1.01926	.99686	.96193	1.02660	1.06491	1.09220	-1.1762
14.000	2.00000	1845.15392	1093.93427	1.01595	.99534	.96272	1.03515	1.06536	1.08926	-1.1993
16.000	2.00000	1845.65709	1094.20544	1.01055	.98845	.94505	1.03754	1.06471	1.08662	-1.2184
18.000	2.00000	1847.25253	1094.62527	1.00366	.98164	.93905	1.03208	1.05876	1.08662	-1.2459
20.000	2.00000	1847.20595	1094.59354	.99537	.97468	.93238	1.02307	1.05593	1.08063	-1.2679
22.000	2.00000	1846.34912	1094.08334	.98148	.96004	.91794	1.01853	1.05335	1.07695	-1.2679
GRADIENT	.00000	-.29651	-.18083	.00125	.00282	.00263	.00227	.00198	.00161	.00008

RN/L = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.250	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
ALPHA	2.00000	2059.21463	1068.92479	1.02613	.97596	.89622	.98705	1.06366	1.11401	-1.08677
.000	2.00000	2059.05692	1068.84325	1.03115	.98123	.90533	.99393	1.07165	1.12055	-1.08862
2.000	2.00000	2059.38257	1069.01056	1.03503	.99120	.91374	1.00139	1.07326	1.12562	-1.08959
4.000	2.00000	2059.19321	1068.91364	1.04064	1.00092	.93104	1.01288	1.08173	1.13151	-1.08668
6.000	2.00000	2059.07996	1069.85469	1.04486	1.00630	.93958	1.02167	1.08642	1.13331	-1.08759
8.000	2.00000	2059.48004	1069.05988	1.04784	1.01327	.95543	1.02810	1.09169	1.13254	-1.09303
10.000	2.00000	2059.62692	1068.62146	1.05131	1.01679	.96146	1.03506	1.09498	1.13395	-1.09676
12.000	2.00000	2059.07443	1069.85205	1.05301	1.02076	.96819	1.04068	1.09325	1.13272	-1.09605
14.000	2.00000	2058.61588	1068.61566	1.04683	1.01826	.96767	1.04585	1.09502	1.13107	-1.10014
16.000	2.00000	2058.53251	1068.57248	1.04416	1.01230	.96555	1.04424	1.09262	1.12820	-1.10104
18.000	2.00000	2058.52417	1068.56763	1.03346	1.00280	.94429	1.04345	1.08532	1.12394	-1.10104
20.000	2.00000	2058.59705	1068.60429	1.01878	.98931	.97149	1.03313	1.07975	1.11820	-1.10357
22.000	2.00000	2058.37756	1068.49115	1.00980	.97871	.95287	1.02551	1.07643	1.11124	-1.10393
GRADIENT	.00000	-.04193	-.02144	.00222	.00381	.00438	.00358	.00240	.00290	.00091

(BETH06) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BCFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER - RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
REF = 474.8000 IN. YMRP = .0000 IN. YO
REF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
	.000	2.00000	1487.32057	654.50834	1.06017	.99829	.89155	.97453	1.08372	1.15256	-.07510
	2.000	2.00000	1487.99101	654.91200	1.06404	1.00492	.89926	.98510	1.09055	1.15671	-.07591
	4.000	2.00000	1487.96725	654.90228	1.07036	1.01716	.91334	.98989	1.09397	1.16419	-.07738
	6.000	2.00000	1487.95211	654.89340	1.07117	1.02111	.92650	1.00340	1.10142	1.16866	-.07855
	8.000	2.00000	1487.95709	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	10.000	2.00000	1487.97105	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	12.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	14.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	16.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	18.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	20.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	22.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	24.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	26.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	28.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	30.000	2.00000	1487.97314	654.89924	1.07172	1.03057	.93606	1.01742	1.11202	1.17260	-.07974
	GRADIENT		.16166	.07349	.00255	.00472	.00545	.00394	.00255	.00231	-.00057

RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
	.000	2.00000	1939.15904	565.47639	1.11042	1.01034	.85108	.98256	1.15204	1.25595	-.05688
	2.000	2.00000	1940.13321	565.76151	1.11925	1.02209	.85930	.98902	1.15486	1.26398	-.05735
	4.000	2.00000	1939.45256	565.59507	1.12953	1.04227	.87883	.99702	1.16212	1.26927	-.05809
	6.000	2.00000	1939.50688	565.60524	1.13225	1.05103	.90161	1.01461	1.17426	1.27515	-.05871
	8.000	2.00000	1939.50688	565.60524	1.13225	1.05103	.90161	1.01461	1.17426	1.27515	-.05871
	10.000	2.00000	1937.17625	565.56639	1.14346	1.06279	.93679	1.03983	1.18774	1.28118	-.05912
	12.000	2.00000	1938.03195	565.24663	1.14477	1.07773	.94772	1.05169	1.19326	1.28327	-.05912
	14.000	2.00000	1937.60146	565.07146	1.14428	1.07911	.94699	1.05169	1.19326	1.28327	-.05912
	16.000	2.00000	1939.26842	565.57153	1.12741	1.07194	.94228	1.05169	1.19326	1.28327	-.05912
	18.000	2.00000	1938.53473	565.35637	1.11586	1.06167	.94228	1.05169	1.19326	1.28327	-.05912
	20.000	2.00000	1938.72614	565.45771	1.10262	1.04914	.94228	1.05169	1.19326	1.28327	-.05912
	22.000	2.00000	1938.94917	565.53458	1.08234	1.03140	.94228	1.05169	1.19326	1.28327	-.05912
	24.000	2.00000	1938.94917	565.53458	1.08234	1.03140	.94228	1.05169	1.19326	1.28327	-.05912
	26.000	2.00000	1938.94917	565.53458	1.08234	1.03140	.94228	1.05169	1.19326	1.28327	-.05912
	28.000	2.00000	1938.94917	565.53458	1.08234	1.03140	.94228	1.05169	1.19326	1.28327	-.05912
	30.000	2.00000	1938.94917	565.53458	1.08234	1.03140	.94228	1.05169	1.19326	1.28327	-.05912
	GRADIENT		.07340	.02967	.00478	.00798	.01594	.00352	.00252	.00333	-.00020

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

(027406) (02 AUG 75)

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 ALLRON = .000 BDELAP = -7.170

PN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500

ALPHA = .000

ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
2.0000	2.0000	2657.8812	532.71109	1.12172	.99001	.79018	.93164	1.14305	1.27881	-.03917
2.0000	2.0000	2657.89584	532.73055	1.13093	1.01291	.80663	.94085	1.14912	1.28849	-.03529
2.0000	2.0000	2657.90709	532.64699	1.14098	1.03505	.82650	.95403	1.15884	1.29732	-.03262
2.0000	2.0000	2657.91708	532.66330	1.15004	1.04360	.85155	.97203	1.17343	1.30395	-.04019
2.0000	2.0000	2657.92800	532.68332	1.15966	1.05960	.87499	.99217	1.18798	1.30944	-.04710
2.0000	2.0000	2657.93899	532.66530	1.16908	1.05496	.90060	1.02286	1.20019	1.31599	-.04717
2.0000	2.0000	2657.94779	532.67244	1.16915	1.07619	.92573	1.04211	1.20649	1.32228	-.04257
2.0000	2.0000	2657.95651	532.67990	1.15053	1.07641	.93485	1.05631	1.20606	1.32228	-.04311
2.0000	2.0000	2657.96551	532.68512	1.14026	1.06788	.94361	1.06905	1.20764	1.31998	-.04386
2.0000	2.0000	2657.97300	532.67227	1.12208	1.05230	.94437	1.07397	1.20268	1.31054	-.04327
2.0000	2.0000	2657.98051	532.67038	1.10124	1.03472	.93501	1.07043	1.19453	1.30123	-.04327
2.0000	2.0000	2657.98709	532.66417	1.07970	1.01495	.93175	1.05924	1.18169	1.29142	-.04327
2.0000	2.0000	2657.99359	532.65458	1.05666	.99975	.92162	1.04215	1.16287	1.27218	-.04356
2.0000	2.0000	2657.99913	532.64458	1.03027	.98126	.90908	1.00560	1.00335	1.00335	-.00000
2.0000	2.0000	2657.99913	532.64458	1.03027	.98126	.90908	1.00560	1.00335	1.00335	-.00000

GRADIENT

(BETH07) (02 AUG 76)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)

APC 11-97-87-094 0A161 OR31TER + RAKES

REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XO
REF = 474.8000 IN. YMRP = .0000 IN. YO
REF = 335.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RVL = 4.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .500

ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
.000	5.00000	2524.0095	566.31805	1.00131	1.00186	1.00112	1.00153	1.00073	1.00071	1.01519
2.000	5.00000	2623.93231	566.31269	1.00138	1.00058	1.00184	1.00108	1.00093	1.00104	1.00947
4.000	5.00000	2624.65535	566.49768	1.00186	1.00224	1.00210	1.00062	1.00184	1.00264	1.00458
6.000	5.00000	2627.65573	567.28098	1.00070	1.00059	1.00224	1.00032	1.00059	1.00057	.99821
8.000	5.00000	2625.01135	566.62947	1.00159	1.00198	1.00130	1.00200	1.00217	1.00244	.99940
10.000	5.00000	2621.66388	566.65800	1.00336	1.00286	1.00219	1.00161	1.00271	1.00271	.99377
12.000	5.00000	2624.17407	566.50737	1.00350	1.00253	1.00219	1.00159	1.00176	1.00190	1.00055
14.000	5.00000	2624.75039	566.33331	1.00341	1.00208	.99865	1.00136	1.00237	1.00197	.99942
16.000	5.00000	2624.29338	566.51554	.99861	1.00001	.99824	1.00110	1.00180	1.00199	.99850
18.000	5.00000	2624.18722	567.20239	.99573	.99730	.99518	.99640	.99771	.99808	.99659
20.000	5.00000	2627.61454	567.25336	.99730	.99378	.98347	.98640	.99262	.99533	.99690
22.000	5.00000	2621.04264	566.53399	.98354	.98507	.97126	.98929	.98260	.98441	.99665
24.000	5.00000	2626.90583	566.72014	.95344	.97001	.94390	.97185	.98260	.98441	.99665
GRADIENT	.00000	.51387	.04238	.00014	.00009	.00025	-.00023	.00030	.00073	-.00265

MACH = .900

ALPHA	BETA	PT	QCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
.000	5.00000	2111.49715	862.97934	.99981	1.00047	.99909	1.00067	1.00024	.99956	1.00085
2.000	5.00000	2115.43283	864.65109	1.00031	1.00122	1.00077	1.00171	1.00175	1.00159	.99869
4.000	5.00000	2117.10139	865.37109	.99929	.99973	.99993	.99942	1.00030	.99957	.99941
6.000	5.00000	2117.79214	865.41688	.99902	1.00035	1.00053	1.00014	.99957	.99953	.99958
8.000	5.00000	2119.30036	866.59323	1.00025	1.00146	1.00153	1.00126	1.00064	1.00184	.99954
10.000	5.00000	2116.59933	866.03103	1.00183	1.00063	.99980	1.00036	1.00078	1.00104	.99976
12.000	5.00000	2117.71755	866.10441	.99904	.99341	.99324	.99012	.99078	.99078	.99940
14.000	5.00000	2118.29323	866.57828	1.00037	1.00127	1.00034	.99951	.99982	1.00084	.99958
16.000	5.00000	2116.00735	864.47287	.99934	1.00038	.99918	.99945	.99951	1.00061	.99950
18.000	5.00000	2116.16746	864.62280	.99823	.99532	.99557	.99549	.99705	.99833	.99643
20.000	5.00000	2116.73282	864.73282	.99969	.99551	.99590	.99621	.99508	.99844	.99634
22.000	5.00000	2118.11169	864.73282	.99726	.99163	.95522	.99379	.99520	.99379	.99634
24.000	5.00000	2112.37099	862.59174	.99126	.99163	.95522	.99379	.99520	.99379	.99634
GRADIENT	.00000	.110354	.03294	-.00013	-.00019	.01021	-.00031	.00001	.00000	-.00016

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-094)
APC 11-97-87-094 0A161 ORBITER + RAKES

REFERENCE DATA

SREF = 2000.000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

PN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	CCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
1.200	0.000	5.00000	2011.53369	1167.44115	1.00018	.99974	.99850	1.00001	1.00075	1.00125	.99369
1.400	0.000	5.00000	2039.60754	1166.59583	.99988	1.00007	.99888	1.00007	1.00359	1.00155	.98916
1.600	0.000	5.00000	2010.79175	1165.93431	1.00033	1.00020	.99952	1.00031	1.00149	1.00202	.99561
1.800	0.000	5.00000	2013.55270	1165.22932	1.00036	.00111	.99933	1.00135	1.00229	1.00262	.99156
2.000	0.000	5.00000	2013.08412	1165.01431	1.00113	1.00094	.99980	1.00124	1.00220	1.00211	.98755
2.200	0.000	5.00000	2013.09351	1168.05627	1.00044	1.00037	.99955	1.00148	1.00232	1.00230	.98354
2.400	0.000	5.00000	2013.09352	1168.47494	.99994	1.00000	.99935	1.00159	1.00232	1.00233	.97957
2.600	0.000	5.00000	2014.42097	1168.72549	.99975	.99796	.99935	1.00094	1.00137	1.00233	.97554
2.800	0.000	5.00000	2014.72244	1168.76085	.99938	.99615	.99769	1.00030	1.00125	1.00235	.97144
3.000	0.000	5.00000	2015.26015	1169.34586	.99370	.93509	.95507	.99975	1.00150	1.00231	.96744
3.200	0.000	5.00000	2016.08566	1170.25401	.99067	.99226	.95321	.99890	1.00129	1.00155	.96387
3.400	0.000	5.00000	2016.50551	1169.47824	.98463	.98696	.96797	.99732	1.00026	1.00063	.95987
3.600	0.000	5.00000	2016.10297	1170.21298	.97295	.97750	.97895	.99355	.93744	.99790	.95515
3.800	0.000	5.00000	2015.13542	1167.12671	.90029	.00012	.00023	.00008	.00018	.00019	.95233

PN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	CCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
1.400	0.000	5.00000	2051.194971	1320.72128	.99320	.98495	.98832	1.00517	1.01097	1.01765	.93347
1.600	0.000	5.00000	2052.59505	1321.30142	.99444	.98678	.99125	1.00602	1.00955	1.01629	.92652
1.800	0.000	5.00000	2043.57286	1317.34763	.99525	.99813	.99260	1.00895	1.01265	1.01854	.91954
2.000	0.000	5.00000	2043.72555	1316.49332	.99613	.99035	.98556	1.00955	1.01211	1.01798	.91253
2.200	0.000	5.00000	2039.74539	1313.94118	.99419	.98766	.98723	1.00660	1.01169	1.01713	.90510
2.400	0.000	5.00000	2037.98092	1313.15947	.99352	.98708	.98772	1.00990	1.01311	1.01755	.89712
2.600	0.000	5.00000	2038.50206	1313.77788	.99356	.98528	.98983	1.01032	1.01359	1.01824	.89099
2.800	0.000	5.00000	2044.20929	1317.01324	.99036	.98390	.98597	1.01222	1.01503	1.01835	.88429
3.000	0.000	5.00000	2043.20944	1315.78711	.98572	.98053	.97544	1.01242	1.01445	1.01611	.87659
3.200	0.000	5.00000	2043.50303	1309.01199	.97789	.97192	.96284	1.00991	1.01116	1.01256	.86804
3.400	0.000	5.00000	2042.00000	1311.49513	.97213	.96648	.96528	1.00626	1.00755	1.00799	.86041
3.600	0.000	5.00000	2042.00000	1312.25989	.96676	.96208	.95925	1.00201	1.00246	1.00251	.85247
3.800	0.000	5.00000	2042.00000	1304.35728	.95551	.95085	.94416	.99623	1.00211	1.00211	.84435
4.000	0.000	5.00000	2042.00000	1304.35728	.00051	.00080	.00107	.00035	.00042	.00022	.83631

(BETH07) 1 02 AUG 75

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BSFLAP = -7.170

TABULATED DATA - OA161 (ARC 11-97-87-094)
ARC 11-97-87-094 OA161 ORBITER + RAKES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
SREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.550

ALPHA

BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
5.0000	1561.82259	1032.75972	.98034	.97252	.95978	1.01380	1.02844	1.03705	1.1245
5.0000	1563.04628	1033.55905	.98491	.97606	.96154	1.01522	1.02925	1.03772	1.1288
5.0000	1563.16922	1033.59172	.98973	.97949	.96831	1.01787	1.03233	1.03927	1.1485
5.0000	1563.46520	1033.78656	.99325	.98115	.97124	1.02171	1.03269	1.04120	1.1543
5.0000	1567.37243	1036.32259	.99293	.98115	.97527	1.02171	1.03851	1.04732	1.1589
5.0000	1572.23655	1039.55555	.99014	.98520	.97407	1.02810	1.03704	1.04555	1.1432
5.0000	1570.17735	1038.18909	.99525	.98716	.97121	1.02855	1.03704	1.04408	1.1913
5.0000	1568.15364	1036.87173	.97736	.97816	.97121	1.03223	1.03958	1.04467	1.2343
5.0000	1568.63318	1037.16933	.96954	.96095	.95137	1.02990	1.03721	1.04464	1.2545
5.0000	1568.93566	1037.25586	.96654	.95736	.94422	1.02805	1.03551	1.04345	1.2552
5.0000	1568.97487	1037.38345	.96033	.95365	.94410	1.02977	1.03441	1.04366	1.3215
5.0000	1571.11673	1039.81490	.94543	.94325	.92596	1.02835	1.03665	1.04297	1.3714
5.0000	1571.42959	1038.99330	.93021	.92782	.91288	1.02530	1.03057	1.03601	1.4670
5.0000	1571.33655	1038.20800	.00235	.00174	.00213	1.00552	1.00097	1.00058	1.00060

GRADIENT

RN/L = 3.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.750

ALPHA

BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
5.0000	1555.65655	1070.81854	.97068	.95303	.92902	1.03315	1.05769	1.07508	1.1341
5.0000	1555.87311	1070.95529	.97189	.95719	.93190	1.03838	1.06006	1.07676	1.1346
5.0000	1555.81548	1070.91904	.97818	.96132	.93802	1.04056	1.06355	1.07934	1.1347
5.0000	1555.53560	1071.38103	.97893	.96335	.94458	1.04338	1.06403	1.07940	1.1338
5.0000	1555.73343	1070.88971	.93111	.96838	.94397	1.04930	1.06991	1.08206	1.1319
5.0000	1555.74200	1070.87334	.97904	.96931	.94763	1.05157	1.06950	1.08378	1.1314
5.0000	1555.84193	1070.26554	.97875	.96445	.94950	1.05489	1.06443	1.08436	1.1361
5.0000	1555.26320	1071.19159	.97272	.95553	.92955	1.05571	1.06843	1.08139	1.1364
5.0000	1555.93567	1071.06336	.95885	.95221	.92821	1.05480	1.06913	1.08191	1.1404
5.0000	1555.92222	1070.30055	.95515	.94932	.92323	1.05482	1.06835	1.08099	1.1404
5.0000	1555.93047	1070.18747	.95007	.94396	.91593	1.05120	1.06345	1.07646	1.1404
5.0000	1555.71529	1070.83327	.94844	.94184	.92298	1.04592	1.06390	1.07688	1.1404
5.0000	1555.66719	1071.45531	.93102	.91441	.90771	1.04235	1.05402	1.06651	1.1519
5.0000	1555.03945	1071.02512	.00197	.00207	.00225	1.00185	1.00146	1.00106	1.00048

GRADIENT

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + RAKES

18E7H07 (02 AUG 75)

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
ALTRON = .000 BCFLAP = -7.170

REFERENCE DATA

SEEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LEEF = 474.6000 IN. YMRP = .0000 IN. YO
SEEF = 936.6000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	2.000	ALPHA	BETA	PT	CCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
1	0.000	0.000	0.000	183.9384	1087.0391	95083	91979	.89225	1.03940	1.09940	1.11455	1.10743
2	0.000	0.000	0.000	183.9393	1087.7321	95749	92808	.89264	1.04166	1.10940	1.11784	1.11171
3	0.000	0.000	0.000	183.9393	1087.0759	96000	93637	.89260	1.04501	1.10940	1.12000	1.11626
4	0.000	0.000	0.000	183.9393	1085.2539	95870	94113	.89260	1.05000	1.10940	1.12311	1.11943
5	0.000	0.000	0.000	183.9393	1085.6747	95732	94554	.89260	1.05500	1.10940	1.12622	1.12000
6	0.000	0.000	0.000	183.9393	1087.6144	95608	94995	.89260	1.06000	1.10940	1.12933	1.12000
7	0.000	0.000	0.000	183.9393	1087.8073	95464	95433	.89260	1.06500	1.10940	1.13244	1.12000
8	0.000	0.000	0.000	183.9393	1087.9386	95316	95889	.89260	1.07000	1.10940	1.13555	1.12000
9	0.000	0.000	0.000	183.9393	1088.0599	95168	96355	.89260	1.07500	1.10940	1.13866	1.12000
10	0.000	0.000	0.000	183.9393	1088.1529	95019	96822	.89260	1.08000	1.10940	1.14177	1.12000
11	0.000	0.000	0.000	183.9393	1088.2246	94864	97289	.89260	1.08500	1.10940	1.14488	1.12000
12	0.000	0.000	0.000	183.9393	1088.2759	94711	97756	.89260	1.09000	1.10940	1.14799	1.12000
13	0.000	0.000	0.000	183.9393	1088.3066	94554	98222	.89260	1.09500	1.10940	1.15110	1.12000
14	0.000	0.000	0.000	183.9393	1088.3166	94399	98689	.89260	1.10000	1.10940	1.15421	1.12000
15	0.000	0.000	0.000	183.9393	1088.3166	94244	99156	.89260	1.10500	1.10940	1.15732	1.12000
16	0.000	0.000	0.000	183.9393	1088.3066	94089	99622	.89260	1.11000	1.10940	1.16043	1.12000
17	0.000	0.000	0.000	183.9393	1088.2759	93933	100089	.89260	1.11500	1.10940	1.16354	1.12000
18	0.000	0.000	0.000	183.9393	1088.2246	93778	100556	.89260	1.12000	1.10940	1.16665	1.12000
19	0.000	0.000	0.000	183.9393	1088.1529	93622	101022	.89260	1.12500	1.10940	1.16976	1.12000
20	0.000	0.000	0.000	183.9393	1088.0599	93467	101489	.89260	1.13000	1.10940	1.17287	1.12000
21	0.000	0.000	0.000	183.9393	1087.9386	93311	101956	.89260	1.13500	1.10940	1.17598	1.12000
22	0.000	0.000	0.000	183.9393	1087.7922	93156	102422	.89260	1.14000	1.10940	1.17909	1.12000
23	0.000	0.000	0.000	183.9393	1087.6144	93000	102889	.89260	1.14500	1.10940	1.18220	1.12000
24	0.000	0.000	0.000	183.9393	1087.4073	92844	103356	.89260	1.15000	1.10940	1.18531	1.12000
25	0.000	0.000	0.000	183.9393	1087.1759	92689	103822	.89260	1.15500	1.10940	1.18842	1.12000
26	0.000	0.000	0.000	183.9393	1086.9289	92533	104289	.89260	1.16000	1.10940	1.19153	1.12000
27	0.000	0.000	0.000	183.9393	1086.6544	92378	104756	.89260	1.16500	1.10940	1.19464	1.12000
28	0.000	0.000	0.000	183.9393	1086.3511	92222	105222	.89260	1.17000	1.10940	1.19775	1.12000
29	0.000	0.000	0.000	183.9393	1086.0266	92067	105689	.89260	1.17500	1.10940	1.20086	1.12000
30	0.000	0.000	0.000	183.9393	1085.6747	91911	106156	.89260	1.18000	1.10940	1.20397	1.12000
31	0.000	0.000	0.000	183.9393	1085.2966	91756	106622	.89260	1.18500	1.10940	1.20708	1.12000
32	0.000	0.000	0.000	183.9393	1084.9000	91600	107089	.89260	1.19000	1.10940	1.21019	1.12000
33	0.000	0.000	0.000	183.9393	1084.4833	91444	107556	.89260	1.19500	1.10940	1.21330	1.12000
34	0.000	0.000	0.000	183.9393	1084.0466	91289	108022	.89260	1.20000	1.10940	1.21641	1.12000
35	0.000	0.000	0.000	183.9393	1083.5900	91133	108489	.89260	1.20500	1.10940	1.21952	1.12000
36	0.000	0.000	0.000	183.9393	1083.1133	90978	108956	.89260	1.21000	1.10940	1.22263	1.12000
37	0.000	0.000	0.000	183.9393	1082.6166	90822	109422	.89260	1.21500	1.10940	1.22574	1.12000
38	0.000	0.000	0.000	183.9393	1082.1000	90667	109889	.89260	1.22000	1.10940	1.22885	1.12000
39	0.000	0.000	0.000	183.9393	1081.5633	90511	110356	.89260	1.22500	1.10940	1.23196	1.12000
40	0.000	0.000	0.000	183.9393	1081.0066	90356	110822	.89260	1.23000	1.10940	1.23507	1.12000
41	0.000	0.000	0.000	183.9393	1080.4300	90200	111289	.89260	1.23500	1.10940	1.23818	1.12000
42	0.000	0.000	0.000	183.9393	1079.8333	90044	111756	.89260	1.24000	1.10940	1.24129	1.12000
43	0.000	0.000	0.000	183.9393	1079.2166	89889	112222	.89260	1.24500	1.10940	1.24440	1.12000
44	0.000	0.000	0.000	183.9393	1078.5800	89733	112689	.89260	1.25000	1.10940	1.24751	1.12000
45	0.000	0.000	0.000	183.9393	1077.9233	89578	113156	.89260	1.25500	1.10940	1.25062	1.12000
46	0.000	0.000	0.000	183.9393	1077.2466	89422	113622	.89260	1.26000	1.10940	1.25373	1.12000
47	0.000	0.000	0.000	183.9393	1076.5500	89267	114089	.89260	1.26500	1.10940	1.25684	1.12000
48	0.000	0.000	0.000	183.9393	1075.8333	89111	114556	.89260	1.27000	1.10940	1.25995	1.12000
49	0.000	0.000	0.000	183.9393	1075.0966	88956	115022	.89260	1.27500	1.10940	1.26306	1.12000
50	0.000	0.000	0.000	183.9393	1074.3400	88800	115489	.89260	1.28000	1.10940	1.26617	1.12000
51	0.000	0.000	0.000	183.9393	1073.5633	88644	115956	.89260	1.28500	1.10940	1.26928	1.12000
52	0.000	0.000	0.000	183.9393	1072.7666	88489	116422	.89260	1.29000	1.10940	1.27239	1.12000
53	0.000	0.000	0.000	183.9393	1071.9500	88333	116889	.89260	1.29500	1.10940	1.27550	1.12000
54	0.000	0.000	0.000	183.9393	1071.1133	88178	117356	.89260	1.30000	1.10940	1.27861	1.12000
55	0.000	0.000	0.000	183.9393	1070.2566	88022	117822	.89260	1.30500	1.10940	1.28172	1.12000
56	0.000	0.000	0.000	183.9393	1069.3800	87867	118289	.89260	1.31000	1.10940	1.28483	1.12000
57	0.000	0.000	0.000	183.9393	1068.4833	87711	118756	.89260	1.31500	1.10940	1.28794	1.12000
58	0.000	0.000	0.000	183.9393	1067.5666	87556	119222	.89260	1.32000	1.10940	1.29105	1.12000
59	0.000	0.000	0.000	183.9393	1066.6300	87400	119689	.89260	1.32500	1.10940	1.29416	1.12000
60	0.000	0.000	0.000	183.9393	1065.6733	87244	120156	.89260	1.33000	1.10940	1.29727	1.12000
61	0.000	0.000	0.000	183.9393	1064.6966	87089	120622	.89260	1.33500	1.10940	1.30038	1.12000
62	0.000	0.000	0.000	183.9393	1063.7000	86933	121089	.89260	1.34000	1.10940	1.30349	1.12000
63	0.000	0.000	0.000	183.9393	1062.6833	86778	121556	.89260	1.34500	1.10940	1.30660	1.12000
64	0.000	0.000	0.000	183.9393	1061.6466	86622	122022	.89260	1.35000	1.10940	1.30971	1.12000
65	0.000	0.000	0.000	183.9393	1060.5900	86467	122489	.89260	1.35500	1.10940	1.31282	1.12000
66	0.000	0.000	0.000	183.9393	1059.5133	86311	122956	.89260	1.36000	1.10940	1.31593	1.12000
67	0.000	0.000	0.000	183.9393	1058.4166	86156	123422	.89260	1.36500	1.10940	1.31904	1.12000
68	0.000	0.000	0.000	183.9393	1057.3000	86000	123889	.89260	1.37000	1.10940	1.32215	1.12000
69	0.000	0.000	0.000	183.9393	1056.1633	85844	124356	.89260	1.37500	1.10940	1.32526	1.12000
70	0.000	0.000	0.000	183.9393	1055.0066	85689	124822	.89260	1.38000	1.10940	1.32837	1.12000
71	0.000	0.000	0.000	183.9393	1053.8300	85533	125289	.89260	1.38500	1.10940	1.33148	1.12000
72	0.000	0.000	0.000	183.9393	1052.6333	85378	125756	.89260	1.39000	1.10940	1.33459	1.12000
73	0.000	0.000	0.000	183.9393	1051.4166	85222	126222	.89260	1.39500	1.10940	1.33770	1.12000
74	0.000	0.000	0.000	183.9393	1050.1800	85067	126689	.89260	1.40000	1.10940	1.34081	1.12000
75	0.000	0.000	0.000	183.9393	1048.9233	84911	127156	.89260	1.40500	1.10940	1.34392	1.12000
76	0.000	0.000	0.000	183.9393	1047.6466	84756	127622	.89260	1.41000	1.10940	1.34703	1.12000
77	0.000	0.000	0.000	183.9393	1046.3500	84600	128089	.89260	1.41500	1.10940	1.35014	1.12000
78	0.000	0.000	0.000	183.9393	1045.0333	84444	128556	.89260	1.42000	1.10940	1.35325	1.12000
79	0.000	0.000	0.000	183.9393	1043.6966	84289	129022	.89260	1.42500	1.10940	1.35636	1.12000
80	0.000	0.000	0.000	183.9393	1042.3400	84133	129489	.89260	1.43000	1.10940	1.35947	1.12000
81	0.000	0.000	0.000	183.9393	1040.9966	83978	129956	.89260	1.43500	1.10940	1.36258	1.12000
82	0.000	0.000	0.000	183.9393	1039.6500	83822	130422	.89260	1.44000	1.10940	1.36569	1.12000
83	0.000	0.000	0.000									

(BETH07) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 CRBITER + RAKES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = .000 BFLAP = -7.170

PV/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 2.500	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	5.00000	1487.41809	654.65117	.95505	.90431	.81831	1.05638	1.16414	1.22340	1.2737
.000	5.00000	1487.53204	654.70170	.97449	.91365	.82734	1.06341	1.16957	1.23173	1.27404
2.000	5.00000	1487.58736	654.72614	.97936	.92393	.83765	1.06810	1.17285	1.23712	1.27555
4.000	5.00000	1487.59553	654.72516	.93335	.93392	.84570	1.07584	1.16051	1.24115	1.27534
6.000	5.00000	1487.60661	654.73832	.93334	.94212	.85229	1.05255	1.16056	1.24055	1.27500
8.000	5.00000	1487.63736	654.75346	.93392	.95307	.87371	1.04915	1.16335	1.24037	1.27497
10.000	5.00000	1487.63515	654.75260	.93355	.95354	.87995	1.1131	1.19333	1.24017	1.27496
12.000	5.00000	1487.64062	654.75657	1.00231	.95350	.88492	1.12157	1.19910	1.24041	1.27491
14.000	5.00000	1487.63156	654.75660	.99487	.95190	.88439	1.12172	1.19755	1.24069	1.27491
16.000	5.00000	1487.64584	654.76619	.96232	.94782	.89190	1.12668	1.19619	1.24178	1.27491
18.000	5.00000	1487.62817	654.74594	.96842	.93329	.87573	1.12623	1.19203	1.24139	1.27491
20.000	5.00000	1487.61235	654.74979	.95166	.91855	.86039	1.12449	1.18635	1.23794	1.27491
22.000	5.00000	1487.57364	654.73773	.93019	.89948	.84341	1.11335	1.17342	1.23056	1.27491
24.000	5.00000	1487.54233	654.71874	.90373	.86468	.80464	1.0933	1.1542	1.2143	1.27491
GRADIENT	.00000	.04233	.01874	.00373	.00468	.00464	.0033	.0048	.00343	.00382

PV/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.000	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
ALPHA	5.00000	1939.46461	565.46770	.95246	.85897	.74792	1.05632	1.25034	1.35390	1.39395
.000	5.00000	1937.72949	564.97363	.97494	.88199	.75662	1.05890	1.25034	1.35390	1.39395
2.000	5.00000	1939.05091	565.06321	.93393	.89553	.77110	1.0744	1.25034	1.35390	1.39395
4.000	5.00000	1939.52211	565.20436	.93780	.9114	.78155	1.0744	1.25034	1.35390	1.39395
6.000	5.00000	1939.14912	565.16261	1.00573	.92857	.80335	1.12467	1.25034	1.35390	1.39395
8.000	5.00000	1938.11229	565.17573	1.01181	.93633	.81682	1.1510	1.25034	1.35390	1.39395
10.000	5.00000	1937.93176	565.12921	1.01522	.94600	.83000	1.1510	1.25034	1.35390	1.39395
12.000	5.00000	1938.21223	565.24744	1.01674	.95154	.83939	1.1510	1.25034	1.35390	1.39395
14.000	5.00000	1938.80711	565.48102	1.02394	.95001	.84365	1.1510	1.25034	1.35390	1.39395
16.000	5.00000	1938.64454	565.46442	.99300	.94244	.84311	1.1510	1.25034	1.35390	1.39395
18.000	5.00000	1938.61358	565.46661	.97982	.94244	.84311	1.1510	1.25034	1.35390	1.39395
20.000	5.00000	1938.60371	565.50047	.95667	.93355	.83508	1.1510	1.25034	1.35390	1.39395
22.000	5.00000	1938.59371	565.50047	.93355	.90355	.81022	1.1510	1.25034	1.35390	1.39395
24.000	5.00000	1938.59142	565.54034	.93355	.88371	.80464	1.1510	1.25034	1.35390	1.39395
GRADIENT	.00000	.35345	.10112	.00710	.00742	.00880	.0039	.0039	.00348	.00344

TABULATED DATA - 0A161 (ARC 11-97-87-09+)
ARC 11-97-87-09+ 0A161 ORBITER + RAKES

REFERENCE DATA

SPEF = 2690.000 SQ.FT. YMRP = 1076.6800 IN. XO
LREF = 574.8000 IN. YMRP = 0000 IN. YO
BREF = 935.6000 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0000

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BD-LAP = -7.170

RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH = 3.500	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT5/OC	PT7/OC
ALPHA	5.00000	2692.0000	535.72283	.93979	.82221	.69165	1.06732	1.28770	1.41487	-.03653
1.000	5.00000	2692.0000	535.57736	.95683	.83837	.69055	1.06739	1.28264	1.42560	-.03793
2.000	5.00000	2692.0000	535.32265	.97382	.85419	.70836	1.06150	1.27459	1.43571	-.03898
3.000	5.00000	2692.0000	535.06853	.99077	.87459	.71859	1.05910	1.26530	1.44365	-.03932
4.000	5.00000	2692.0000	535.81256	.99507	.89920	.72475	1.05716	1.25520	1.45167	-.03984
5.000	5.00000	2692.0000	535.55765	1.00179	.90857	.76019	1.05333	1.24535	1.45999	-.04121
6.000	5.00000	2692.0000	535.30287	1.00328	.91842	.77854	1.04939	1.23479	1.46779	-.04234
7.000	5.00000	2692.0000	535.04809	1.00252	.92258	.78737	1.04535	1.22449	1.47549	-.04321
8.000	5.00000	2692.0000	534.79374	.99467	.92431	.79665	1.04137	1.21433	1.48361	-.04386
9.000	5.00000	2692.0000	534.53935	.97738	.91515	.78363	1.03717	1.20433	1.49166	-.04426
10.000	5.00000	2692.0000	534.28472	.95901	.90759	.7558	1.03279	1.19456	1.49917	-.04457
11.000	5.00000	2692.0000	534.03074	.93566	.87329	.7258	1.02822	1.18494	1.50607	-.04489
12.000	5.00000	2692.0000	533.77657	.90844	.84614	.69579	1.02347	1.17547	1.51237	-.04509
13.000	5.00000	2692.0000	533.52257	.87851	.80799	.66623	1.01855	1.16622	1.51809	-.04522
14.000	5.00000	2692.0000	533.26895	.84651	.76799	.62623	1.01345	1.15722	1.52322	-.04529

(94-278) (94-278)

DAWNE-PICATA

[illegible]

TABLED DATA - 0A16: (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 CRBITER + PROBS

4170 3263330

[illegible]

RM/L =	3.98	GRADIENT INTERVAL =	-5.00/	5.00
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[illegible]

RYU = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

9

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA161 ORBITER + PROBES

(BE7H391 (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6300 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0300

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -7.178

MACH	ALPHA	BETA	PT	OCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
.300	.000	-5.00000	4119.57965	248.78149	.02882	.02583	-.17694	-.18633	-.17793	.99462	.99998
2.000	.000	-5.00000	4123.57532	249.35577	.03747	.03717	-.16715	-.17654	-.17265	.99815	.99668
4.000	.000	-5.00000	4121.73639	249.09450	.03666	.03592	-.16966	-.17605	-.17357	.98534	.99960
6.000	.000	-5.00000	4121.49103	249.06122	.03647	.03609	-.17186	-.17632	-.17559	.99004	1.00154
8.000	.000	-5.00000	4121.41604	249.09479	.03511	.03760	-.16993	-.17610	-.17541	.99125	1.00178
10.000	.000	-5.00000	4119.14674	248.88782	.03201	.03292	-.17361	-.17948	-.18024	.99157	.99852
12.000	.000	-5.00000	4118.78351	248.85522	.03330	.03393	-.16471	-.17714	-.17796	.98891	.99812
14.000	.000	-5.00000	4118.52954	248.83374	.03183	.03386	-.16470	-.17525	-.17781	.99501	.99901
16.000	.000	-5.00000	4121.14709	249.04761	.03279	.03636	-.16551	-.17227	-.17383	.96834	.99857
18.000	.000	-5.00000	4121.60559	249.06342	.03205	.03585	-.16674	-.17083	-.17203	.94765	.99394
20.000	.000	-5.00000	4121.58350	249.15082	.02773	.03150	-.17854	-.17739	-.17805	.91722	.98381
22.000	.000	-5.00000	4122.00201	249.13409	.03114	.03330	-.17926	-.17763	-.17354	.87208	.97819
24.000	.000	-5.00000	4120.84576	249.04639	.02573	.02828	-.19171	-.18608	-.18004	.80868	.96912
GRADIENT		.00000	.53923	.07828	.00195	.00252	.00182	.00257	.00109	.00018	-.00009

MACH	ALPHA	BETA	PT	OCOMP	PT1/QC	PT2/QC	PT3/QC	PT4/QC	PT5/QC	PT6/QC	PT7/QC
.500	.000	-5.00000	2506.31174	544.14188	.07960	.22872	-.14434	-.07859	.07863	.98339	.99761
2.000	.000	-5.00000	2506.26218	544.09811	.04520	.15635	-.15018	-.11053	.00565	.99338	.99400
4.000	.000	-5.00000	2511.81845	544.70374	.03232	.13245	-.14920	-.12231	-.02713	.99159	.99461
6.000	.000	-5.00000	2509.86660	544.56058	.02506	.10137	-.15225	-.13048	-.04834	.99187	.99508
8.000	.000	-5.00000	2511.31799	544.67014	.02052	.08587	-.15319	-.13453	-.06532	.99137	.99703
10.000	.000	-5.00000	2512.78818	544.77307	.01580	.07183	-.15297	-.13920	-.07988	.98866	.99537
12.000	.000	-5.00000	2509.95396	544.60922	.01005	.05901	-.15450	-.14356	-.09176	.98395	.99434
14.000	.000	-5.00000	2514.28763	545.13351	.00949	.05205	-.15638	-.14509	-.09982	.97811	.99339
16.000	.000	-5.00000	2521.94302	545.94302	.01132	.04866	-.15966	-.14571	-.10528	.97110	.99183
18.000	.000	-5.00000	2517.48352	545.45175	.00616	.04491	-.17197	-.15571	-.11987	.96845	.98724
20.000	.000	-5.00000	2515.42865	545.24341	.00312	.02851	-.18824	-.16921	-.13189	.93841	.98338
22.000	.000	-5.00000	2517.02057	545.24341	.00226	.02177	-.19713	-.17378	-.14079	.90751	.97679
24.000	.000	-5.00000	2512.80313	544.94443	-.00150	.01592	-.20814	-.18461	-.15196	.86296	.96621
GRADIENT		.00000	1.37667	.14046	-.01182	-.02667	-.00122	-.01093	-.02669	-.00045	-.00075

TABULATED DATA - 0A181 (ARC 11-97-87-094)

ARC 11-97-87-094 0A181 ORBITER + PROBES

(BETHEID) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.6800 IN. XQ
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZQ
SCALE = .0300

BETA =
ATLIRON =
ELEVON =
BOIFLAP =

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
= .360	-2.00000	4121.05066	249.00507	.03058	.01992	-.16232	-.17556	-.16894	1.00849	.98679
ALPHA	-2.00000	4127.24060	249.68188	.03006	.02113	-.16878	-.17829	-.17266	.99873	.99984
2.000	-2.00000	4127.63379	249.71631	.03222	.02644	-.16596	-.17559	-.17440	.99805	1.00008
4.000	-2.00000	4127.76691	249.76691	.03062	.02683	-.16609	-.17634	-.17538	.99951	.99985
6.000	-2.00000	4125.35101	249.40753	.02871	.02601	-.16414	-.17627	-.17593	.99995	1.00172
8.000	-2.00000	4125.09515	249.36584	.02817	.02596	-.16597	-.17661	-.17593	.99860	1.00002
10.000	-2.00000	4127.15857	249.65997	.03084	.02849	-.15995	-.17008	-.17499	.99245	1.00156
12.000	-2.00000	4127.72009	249.73999	.03183	.02725	-.16229	-.17271	-.17448	.98658	1.00077
14.000	-2.00000	4125.48828	249.41089	.02717	.02757	-.16230	-.17090	-.17516	.97194	.99463
16.000	-2.00000	4127.15497	249.55729	.02945	.02757	-.16230	-.17338	-.17516	.92160	.98592
18.000	-2.00000	4126.50238	249.53143	.02650	.02340	-.16827	-.17927	-.17780	.87713	.97754
20.000	-2.00000	4122.64178	249.21149	.02590	.02186	-.18013	-.18551	-.18163	.81665	.97162
22.000	-2.00000	4121.59155	249.18207	.02499	.02186	-.18013	-.18551	-.18163	.81665	.97162
24.000	-2.00000	1.64579	.17781	.00041	.00163	-.00091	-.00261	-.00136	-.00261	.00082
GRADIENT	.00000									

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
= .600	-2.00000	2501.29996	543.63489	-.01844	-.00497	-.16555	-.21831	-.19108	.98347	.98658
ALPHA	-2.00000	2511.32452	544.57901	-.07782	-.00141	-.15655	-.19111	-.18402	.99577	.99577
2.000	-2.00000	2512.74292	544.80139	-.03864	-.00420	-.15742	-.18569	-.18351	.99591	.98638
4.000	-2.00000	2512.11310	544.74756	-.00792	-.00431	-.15479	-.17999	-.18065	.99577	.99458
6.000	-2.00000	2517.33130	545.34128	-.00460	-.00223	-.15018	-.17163	-.17604	.99431	.99532
8.000	-2.00000	2514.05701	544.98981	-.00663	-.00452	-.15454	-.17114	-.17521	.99152	.99474
10.000	-2.00000	2508.66873	544.47385	-.00851	-.00690	-.15661	-.17116	-.17472	.99138	.99549
12.000	-2.00000	2515.03925	545.19662	-.00618	-.00620	-.15810	-.16833	-.17132	.98460	.99500
14.000	-2.00000	2516.78275	545.56393	-.00395	-.00296	-.16140	-.16623	-.16727	.97500	.99259
16.000	-2.00000	2515.10529	545.23941	-.00601	-.00404	-.17826	-.17431	-.16947	.96047	.98621
18.000	-2.00000	2515.90900	545.29971	-.00534	-.00407	-.19738	-.18127	-.17148	.93907	.98614
20.000	-2.00000	2516.35815	545.33105	-.00435	-.00335	-.20636	-.18806	-.17544	.90298	.97974
22.000	-2.00000	2514.59457	545.21460	-.00623	-.00479	-.22353	-.19318	-.18174	.84315	.97126
24.000	-2.00000	2.86074	.29163	.00243	.00019	.00268	.00815	.00187	.00059	-.00005
GRADIENT	.00000									

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OF POOR QUALITY

REFERENCE DATA

SREF = 2900.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RM/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
300	.00000	4125.41028	249.73895	.03857	.04258	-.15459	-.16664	-.16615	1.00531	.99327
ALPHA	.000	4122.70245	249.19238	.03720	.04588	-.16473	-.17290	-.17160	.99845	.99861
2.000	.00000	4119.92072	248.96869	.03282	.02987	-.16329	-.17298	-.17506	.99958	.99894
4.000	.00000	4122.39531	249.16431	.03604	.03358	-.16012	-.16886	-.17034	1.00027	1.00151
6.000	.00000	4122.70056	249.16431	.03432	.03069	-.15975	-.16901	-.17318	.99693	1.00023
8.000	.00000	4120.15510	248.97644	.02926	.02801	-.16321	-.17125	-.17543	.99840	1.00004
10.000	.00000	4120.08838	248.98328	.02848	.03065	-.16881	-.16860	-.17420	.99540	1.00013
12.000	.00000	4120.50262	249.02924	.02857	.02944	-.15651	-.16985	-.17095	.99794	1.00007
14.000	.00000	4120.01282	248.97894	.02798	.02789	-.15662	-.16756	-.17140	.97624	.99692
16.000	.00000	4120.13165	248.99097	.02773	.02930	-.16033	-.16509	-.16899	.95509	.99510
18.000	.00000	4119.52338	248.91595	.02584	.02453	-.16033	-.16605	-.17023	.92804	.99036
20.000	.00000	4121.31134	249.11853	.02386	.02297	-.17159	-.17066	-.17189	.87765	.97878
22.000	.00000	4122.39026	249.24579	.02771	.02458	-.18149	-.17085	-.17181	.81648	.97390
24.000	.00000	-1.62236	-.19257	-.00171	-.00318	-.00218	-.00157	-.00223	-.00143	.00167
GRADIENT										

RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
500	.00000	2496.62769	542.73410	-.00057	-.00008	-.15371	-.20445	-.19895	.99878	1.00045
ALPHA	.000	2511.31277	544.57352	.00177	.00475	-.15722	-.18539	-.18743	.99733	.99589
2.000	.00000	2507.01227	544.18674	-.00239	.00185	-.15534	-.18194	-.18722	.98537	.99477
4.000	.00000	2504.08737	543.80991	-.00526	-.00188	-.15743	-.18028	-.18576	.98488	.99417
6.000	.00000	2507.69669	544.12918	-.00298	.00148	-.15264	-.17505	-.18157	.99423	.99440
8.000	.00000	2511.66229	544.59464	-.00195	.00167	-.15100	-.17042	-.17763	.99470	.99734
10.000	.00000	2516.93073	545.34891	-.00164	.00167	-.15197	-.16889	-.17301	.99027	.99621
12.000	.00000	2516.29508	545.23459	-.00171	.00151	-.15124	-.16488	-.16979	.98674	.99634
14.000	.00000	2516.71591	545.31421	-.00186	.00155	-.15211	-.16257	-.16718	.97737	.99332
16.000	.00000	2519.31281	545.54465	-.00067	.00287	-.16866	-.16551	-.16600	.99599	.99135
18.000	.00000	2522.01395	545.95819	.00011	.00273	-.18348	-.17062	-.16568	.93517	.98644
20.000	.00000	2520.69785	545.91702	-.00251	-.00029	-.19583	-.18099	-.17100	.89359	.98229
22.000	.00000	2511.39380	544.84381	-.00853	-.00621	-.22104	-.19641	-.18224	.82837	.97244
24.000	.00000	2.84615	.36316	-.00045	.00048	-.00041	-.00563	.00293	-.00065	-.00142
GRADIENT										

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ATLON = .000 BDELAP = -7.178

TABULATED DATA - 0A161 (ARC 11-97-87-084)

ARC 11-97-87-084 0A161 ORBITER + PROBES

(02 AUG 76)

REFERENCE DATA

SREF = 2590.0080 SQ.FT. XMRP = 1076.6880 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
 ATLIRON = .000 BOFLAP = -7.170

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.300	.000	2.00000	4115.48804	248.44531	-.02642	-.09829	-.16386	-.28829	-.12756	1.00644	PT7/OC
2.000	.000	2.00000	4114.81775	248.35851	-.00318	-.08940	-.16680	-.20518	-.19829	.99993	.99619
4.000	.000	2.00000	4114.38245	248.31848	.00403	-.02364	-.16679	-.19216	-.19347	1.00149	1.00285
6.000	.000	2.00000	4114.84580	248.35297	.00738	-.01173	-.16479	-.19244	-.19741	.99992	1.00012
8.000	.000	2.00000	4113.08344	248.26361	.00911	-.01099	-.16291	-.19035	-.19984	.99544	.99991
10.000	.000	2.00000	4112.73633	248.21918	.00890	-.00799	-.16346	-.18318	-.19858	.98682	.99855
12.000	.000	2.00000	4110.27911	248.25049	.01215	-.00014	-.15895	-.18271	-.19559	.99783	.99314
14.000	.000	2.00000	4113.91693	248.27482	.01284	.00264	-.16215	-.17816	-.18808	.99518	1.00596
16.000	.000	2.00000	4115.94379	248.55912	.01850	.00983	-.16265	-.17189	-.18115	.95784	.99348
18.000	.000	2.00000	4119.10223	248.91479	.02482	.01546	-.15901	-.16560	-.17380	.92940	.99304
20.000	.000	2.00000	4122.01495	249.21887	.02716	.01886	-.16997	-.16593	-.17150	.88352	.98508
22.000	.000	2.00000	4117.24634	248.65137	.01720	.00856	-.18710	-.18234	-.18459	.82608	.97495
24.000	.000	2.00000	-.27441	-.03171	.00761	.01816	-.00023	.00753	-.00048	-.08124	.00097
GRADIENT											

MACH	ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.500	.000	2.00000	2511.72870	544.38303	-.00226	.00011	-.15658	-.20427	-.19468	.99744	PT7/OC
2.000	.000	2.00000	2517.44931	545.43201	-.00237	-.00031	-.15746	-.18970	-.18985	.98840	.99752
4.000	.000	2.00000	2521.57040	545.94418	-.00104	.00027	-.15388	-.18889	-.18509	.98690	.99729
6.000	.000	2.00000	2515.75690	545.04642	.00010	.00140	-.15485	-.17813	-.18432	.99610	.98778
8.000	.000	2.00000	2535.99307	550.33798	-.04714	-.04648	-.15807	-.17780	-.18681	.98614	.99594
10.000	.000	2.00000	2545.28705	551.92322	-.05237	-.05166	-.15451	-.17147	-.18056	.99524	.99594
12.000	.000	2.00000	2543.39755	551.59161	-.05063	-.04897	-.15093	-.16870	-.17727	.98049	.99511
14.000	.000	2.00000	2545.79358	551.95847	-.05099	-.04795	-.15561	-.16581	-.17250	.98496	.99532
16.000	.000	2.00000	2547.21573	552.08121	-.05359	-.04762	-.16175	-.16636	-.17809	.97284	.99424
18.000	.000	2.00000	2543.28360	551.73090	-.05001	-.05109	-.17802	-.17342	-.17281	.95494	.98150
20.000	.000	2.00000	2551.08099	552.59949	-.05001	-.04717	-.18667	-.17468	-.16946	.93038	.98655
22.000	.000	2.00000	2551.13522	552.68289	-.05192	-.04863	-.19842	-.18238	-.17327	.88256	.98408
24.000	.000	2.00000	2544.39563	551.87558	-.05443	-.05064	-.21227	-.19317	-.17953	.80873	.97444
GRADIENT			2.46045	.39029	.00031	.00004	.00073	.00584	.00240	-.00013	-.00022

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

MACH = .300

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDFLAP = -7.170

ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.000	5.00000	4111.07709	247.82642	.18945	.27915	-.17180	-.06532	-.39135	1.00387	.95548
2.000	5.00000	4111.63330	247.91272	.11724	.40183	-.16569	-.10595	-.26106	1.00022	1.00008
4.000	5.00000	4113.61224	248.18791	.09306	.07473	-.16371	-.11956	-.23157	.99850	1.00161
6.000	5.00000	4113.71021	249.19389	.07255	.04499	-.16425	-.13306	-.20897	1.00141	.99991
8.000	5.00000	4108.65509	247.69733	.05154	.05481	-.16566	-.14881	-.19777	1.00183	1.00150
10.000	5.00000	4111.06720	247.87078	.04227	.04538	-.16461	-.15283	-.18704	.99993	.99851
12.000	5.00000	4109.18353	247.73529	.02972	.04190	-.16145	-.16026	-.17777	.99285	1.00077
14.000	5.00000	4111.46014	247.97327	.02843	.03819	-.16094	-.15903	-.17539	.98974	.99367
16.000	5.00000	4118.91577	248.78912	.02268	.02741	-.16094	-.17007	-.17142	.97740	.99397
18.000	5.00000	4119.71191	249.91748	.01803	.01816	-.16513	-.16818	-.17476	.96078	.99330
20.000	5.00000	4124.50134	249.35229	.01986	.01976	-.16404	-.17603	-.16956	.92498	.98569
22.000	5.00000	4123.99310	249.27850	.01942	.01500	-.17274	-.17274	-.17432	.87860	.97371
24.000	5.00000	4116.33938	248.48297	.00951	.00609	-.19232	-.18970	-.18626	.81184	.97149
GRADIENT	.00000	.63383	.09035	-.02410	-.05110	.00202	-.01359	.03994	-.00134	.00128

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

ALPHA	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.000	5.00000	2539.89575	551.15329	-.05348	-.05241	-.16574	-.20880	-.19884	.99816	.99443
2.000	5.00000	2543.77155	551.75238	-.05503	-.05642	-.16528	-.19640	-.19603	.99589	.99633
4.000	5.00000	2547.62610	552.10391	-.05326	-.05208	-.16375	-.18598	-.19147	.99755	.99544
6.000	5.00000	2543.32291	551.60599	-.05568	-.05483	-.16322	-.18558	-.19179	.99548	.99737
8.000	5.00000	2542.63596	552.08066	-.06420	-.06482	-.16315	-.18400	-.19194	.99554	.99544
10.000	5.00000	2545.97491	552.50766	-.06561	-.06538	-.15969	-.17933	-.18871	.99522	.99576
12.000	5.00000	2543.11097	552.24149	-.06625	-.06692	-.16004	-.17782	-.18732	.99522	.99591
14.000	5.00000	2547.63428	552.68491	-.06400	-.06461	-.16251	-.17406	-.18199	.98522	.99519
16.000	5.00000	2552.74863	553.24478	-.06264	-.06339	-.16762	-.17315	-.17891	.97305	.995-2
18.000	5.00000	2540.56571	552.00095	-.06972	-.07029	-.19111	-.18537	-.18583	.95215	.99238
20.000	5.00000	2537.67148	551.58651	-.06966	-.07022	-.19442	-.18911	-.18718	.92404	.98953
22.000	5.00000	2543.69781	552.26263	-.06625	-.06714	-.19603	-.18931	-.18561	.87134	.98261
24.000	5.00000	2543.88870	552.44699	-.06807	-.06863	-.20820	-.19524	-.18843	.77608	.97507
GRADIENT	.00000	1.93259	.23766	.00006	.00008	.00050	.00548	.00184	-.00015	.00050

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(BETHE) (DE 78)

TABULATED DATA - 0A161 (ARC 11-97-87-09%)
ARC 11-97-87-09% 0A161 ORBITER + PROBES.

PARAMETRIC DATA

BETA = 8.000 ELEVON = .008
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
300	.000	8.00000	4104.20569	247.56268	-5.77323	-13.86357	-35460	-5.29708	-2.24245	1.00176	.99787
2.000	.000	8.00000	4098.86363	246.59363	-3.35739	-13.36498	-31337	-3.34410	-2.53344	.99854	1.00389
4.000	.000	8.00000	4100.82227	246.78015	-2.37721	-4.89620	-29967	-2.52680	-2.51270	.9997	.99908
6.000	.000	8.00000	4104.97905	247.29291	-1.77688	-3.45121	-27962	-2.00016	-2.34489	.99751	.99845
8.000	.000	8.00000	4106.86511	247.42456	-1.29717	-3.08114	-25867	-1.55548	-2.12146	.99981	.99998
10.000	.000	8.00000	4103.75303	247.07888	-.96735	-2.47227	-24568	-1.25363	-1.88863	.99897	.98788
12.000	.000	8.00000	4102.73383	246.98956	-.71715	-2.03381	-22980	-1.00454	-1.64968	.99379	.99734
14.000	.000	8.00000	4103.26404	247.04779	-.53137	-1.63456	-21691	-.81443	-1.42804	.98637	.98543
16.000	.000	8.00000	4107.78955	247.53607	-.39419	-1.32252	-20990	-.67175	-1.23478	.97125	.99501
18.000	.000	8.00000	4109.02155	247.65472	-.29278	-1.05616	-20270	-.55950	-1.05917	.96427	.98672
20.000	.000	8.00000	4107.89282	247.57880	-.21736	-.83910	-19825	-.47576	-.90789	.92306	.97884
22.000	.000	8.00000	4104.02478	247.19354	-.16493	-.65959	-20416	-.41326	-.77854	.87365	.97884
24.000	.000	8.00000	4100.98999	246.88135	-.13041	-.53379	-21070	-.37269	-.68256	.75426	.97032
GRADIENT		.00000	-.84587	-.19563	.84901	2.24184	.01373	.6925	-.06756	-.00057	.00030

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
600	.000	8.00000	2540.42752	551.77985	-.01709	.04582	-.17427	-.16709	-.18367	1.00076	.98413
2.000	.000	8.00000	2541.56726	551.92032	-.03767	.04213	-.17464	-.17216	-.17901	.99566	.99592
4.000	.000	8.00000	2543.31274	552.13834	-.04631	-.02786	-.17159	-.17485	-.17848	.98731	.99686
6.000	.000	8.00000	2543.26749	552.22540	-.05199	-.04013	-.17395	-.17751	-.17859	.99706	.99664
8.000	.000	8.00000	2539.14648	551.52222	-.05401	-.03984	-.17519	-.17947	-.17935	.99811	.99725
10.000	.000	8.00000	2540.49190	551.64600	-.05600	-.04484	-.17076	-.17941	-.18006	.99554	.99739
12.000	.000	8.00000	2540.93640	551.81924	-.05900	-.04994	-.16754	-.17974	-.18098	.99325	.99615
14.000	.000	8.00000	2542.98930	551.97818	-.05993	-.05320	-.17474	-.18087	-.18126	.98508	.99515
16.000	.000	8.00000	2546.36489	552.30219	-.05943	-.05480	-.17709	-.18118	-.18086	.97051	.99447
18.000	.000	8.00000	2552.10068	552.94501	-.05761	-.05567	-.18321	-.18201	-.18126	.94753	.98884
20.000	.000	8.00000	2542.79172	551.97647	-.05235	-.05922	-.19245	-.19124	-.18613	.91286	.98551
22.000	.000	8.00000	2537.01990	551.41318	-.06604	-.06359	-.20926	-.20080	-.19245	.84821	.98104
24.000	.000	8.00000	2540.41748	551.85670	-.06546	-.06472	-.21214	-.20451	-.19529	.75433	.97060
GRADIENT		.00000	.72131	.08962	-.00731	-.01823	.00067	-.00194	.00130	-.00086	.00069

(BE7H45) (02 AUG 75)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6600 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.300	-5.00000	4083.68168	246.18158	.05972	.05570	-.19706	-.14180	-.14081	.99813	.99910
ALPHA	-5.00000	4080.42380	245.92166	.04873	.05806	-.19566	-.15187	-.13863	.99819	1.00173
2.000	-5.00000	4082.97000	246.11456	.03848	.05835	-.18833	-.16446	-.14903	.99817	.99972
4.000	-5.00000	4080.93282	245.96808	.02388	.05535	-.19268	-.17225	-.15390	.99505	1.00462
6.000	-5.00000	4080.90522	245.90494	.01078	.04613	-.19712	-.18359	-.16182	.99159	1.00202
8.000	-5.00000	4083.33157	246.22754	.00484	.03164	-.18976	-.18308	-.16749	.99005	.99836
10.000	-5.00000	4083.19510	246.24478	.00145	.02370	-.18654	-.18527	-.17128	.98385	.99609
12.000	-5.00000	4085.79639	246.43811	-.00315	.01560	-.18345	-.18554	-.17704	.97406	.99631
14.000	-5.00000	4083.73492	246.26376	-.00733	.00855	-.19012	-.18986	-.18051	.95309	.99268
16.000	-5.00000	4082.53638	246.17068	-.00962	.00378	-.19545	-.19329	-.18296	.92767	.98686
18.000	-5.00000	4086.27255	246.49762	-.00906	.00064	-.19966	-.19376	-.18578	.89567	.99285
20.000	-5.00000	4082.27555	246.06711	-.01430	-.00499	-.21604	-.20588	-.19326	.84270	.97622
22.000	-5.00000	4082.27554	246.10791	-.01497	-.00698	-.23799	-.21501	-.19889	.78720	.96193
24.000	-5.00000	4082.27554	246.10791	-.01497	-.00698	-.23799	-.21501	-.19889	.78720	.96193
GRADIENT	.00000	-.18042	-.01675	-.00731	-.00184	.00218	-.00567	-.00210	.00001	.00016

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.600	-5.00000	2503.66928	542.58768	2.67404	3.31284	.08218	2.62815	2.59959	.99162	.98846
ALPHA	-5.00000	2506.05470	543.15677	1.99256	2.97657	.05737	2.00510	2.35412	.99162	.99300
2.000	-5.00000	2504.84750	543.08339	1.47781	2.58754	.02624	1.51446	2.13065	.98494	.99481
4.000	-5.00000	2507.57928	543.27283	1.10188	2.21127	-.00158	1.13849	1.86643	.98352	.99433
6.000	-5.00000	2507.23706	543.21561	.82842	1.86631	-.02666	.85453	1.61333	.99353	.99448
8.000	-5.00000	2515.97717	544.23846	.52311	1.54605	-.04767	.63037	1.36117	.98774	.99512
10.000	-5.00000	2506.08347	543.99435	.47178	1.28061	-.07173	.45928	1.14284	.98038	.99240
12.000	-5.00000	2503.21774	543.13745	.38766	1.04978	-.09615	.31962	.94154	.97563	.99360
14.000	-5.00000	2503.51517	542.73386	.26873	.85484	-.13003	.28488	.76320	.96878	.99137
16.000	-5.00000	2502.70032	542.70032	.20196	.68982	-.15834	.11088	.63257	.94960	.98759
18.000	-5.00000	2501.39257	542.52133	.15444	.58608	-.18601	.03225	.46637	.92541	.98400
20.000	-5.00000	2502.79318	542.72339	.11804	.44513	-.20101	-.02681	.34458	.89236	.97494
22.000	-5.00000	2510.39862	543.53366	.09840	.36560	-.234	-.07238	.25434	.84115	.96341
24.000	-5.00000	2510.39862	543.53366	.09840	.36560	-.234	-.07238	.25434	.84115	.96341
GRADIENT	.00000	.28456	.10393	-.29908	-.17882	.01399	-.27842	-.09476	.00883	.00159

PARAMETRIC DATA

BETA = -5.000 ELEVON = 15.000
AILRON = .000 BDFLAP = -7.170

(BE7H46) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = 15.000
AILRON = .000 BOFLAP = -7.170

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER + PROBES

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.300	-2.00000	4083.06894	246.58884	-.00615	-.00048	-.20143	-.20903	-.28453	.99886	1.00401
ALPHA	.000	4091.17751	246.89841	-.00348	.01010	-.20141	-.20430	-.28285	.99822	.99822
2.000	-2.00000	4091.68335	246.96774	-.00225	-.00557	-.20330	-.20621	-.20419	1.00290	1.00105
4.000	-2.00000	4089.27725	246.62329	.00257	-.00974	-.19477	-.21003	-.20598	1.00175	1.00175
6.000	-2.00000	4089.24741	246.61700	.01021	-.00886	-.19192	-.20805	-.20778	.99669	1.00176
8.000	-2.00000	4089.48151	246.64651	.01172	-.01175	-.19549	-.20627	-.20633	.99483	1.00300
10.000	-2.00000	4088.44775	246.64395	.01211	-.01132	-.19282	-.20277	-.20630	.99264	1.00318
12.000	-2.00000	4088.15720	246.60281	.01269	-.01414	-.18979	-.20378	-.20773	.98130	1.00250
14.000	-2.00000	4091.20270	246.90231	.01424	-.01408	-.18383	-.19878	-.20356	.96270	.99543
16.000	-2.00000	4090.50607	246.77719	.01600	-.01526	-.18496	-.20003	-.20337	.93826	.99707
18.000	-2.00000	4095.35325	246.20126	.02212	-.02472	-.19339	-.20660	-.21096	.89876	.98661
20.000	-2.00000	4087.08173	246.37830	.02171	-.02429	-.21238	-.20748	-.21035	.85454	.98001
22.000	-2.00000	4092.22760	245.98764	-.01566	-.01698	-.25500	-.20669	-.20475	.78898	.96742
GRADIENT	.00000	.65365	.09473	.00023	-.00127	-.00047	.00071	.00009	.00076	-.00074

ORIGINAL PAGE IS
OF POOR QUALITY

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.600	-2.00000	2497.21130	542.06506	.09850	.23510	-.17411	-.12100	.03275	.99597	.99611
ALPHA	.000	2497.06308	541.90466	.07467	.13270	-.17656	-.13971	-.01026	.99728	.99634
2.000	-2.00000	2504.31854	542.77719	.06432	-.16788	-.17682	-.14516	-.03568	.99563	.99564
4.000	-2.00000	2502.25977	542.33594	.05305	.14369	-.17663	-.15288	-.05982	.99219	.99691
6.000	-2.00000	2499.75104	542.02420	.04147	.11705	-.17639	-.16202	-.08458	.99489	.98759
8.000	-2.00000	2510.75306	543.22000	.04046	.10348	-.17116	-.16050	-.09549	.99166	.99136
10.000	-2.00000	2510.94400	543.36368	.03812	.08805	-.17114	-.16504	-.11035	.99376	.99535
12.000	-2.00000	2503.56127	542.69028	.02750	.07125	-.18070	-.17401	-.12651	.99181	.99448
14.000	-2.00000	2505.05128	542.80283	.02412	.05814	-.19760	-.18251	-.14164	.97095	.99340
16.000	-2.00000	2500.93402	542.31900	.01794	.04413	-.22132	-.19772	-.15992	.95143	.98911
18.000	-2.00000	2494.98662	541.69189	.01293	.03483	-.24224	-.21336	-.17343	.92441	.98499
20.000	-2.00000	2503.14465	542.57532	.01567	.03428	-.25130	-.22302	-.18117	.88030	.97933
22.000	-2.00000	2509.37143	543.35681	.01848	.03430	-.28502	-.23538	-.18841	.82073	.97003
GRADIENT	.00000	1.77681	.17803	-.00860	-.01680	-.00063	-.00604	-.01711	.00016	-.00012

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES.

(BE7447) (02 AUG 78)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.300	.00000	4094.11484	247.20618	-.03968	-.09584	-.20471	-.24153	-.23416	1.00293	.99997
ALPHA	.000	4094.92465	247.32278	-.3203	-.10240	-.20128	-.23342	-.23355	1.00476	1.00131
2.000	.00000	4092.43301	246.98380	-.33038	-.05708	-.19853	-.23238	-.23360	1.00519	1.00466
4.000	.00000	4094.4427	247.27225	-.32433	-.03809	-.19313	-.22147	-.23021	1.00032	1.00203
6.000	.00000	4094.62842	247.01343	-.32406	-.03977	-.19254	-.21843	-.23063	.99915	.99813
8.000	.00000	4092.36960	246.97372	-.32404	-.03605	-.19014	-.21594	-.22904	.99698	1.00262
10.000	.00000	4092.73123	247.02350	-.02199	-.03302	-.18815	-.20905	-.22214	.99123	1.00218
12.000	.00000	4092.36197	246.98102	-.02254	-.03177	-.18391	-.20628	-.22093	.99058	.99525
14.000	.00000	4092.49921	247.00168	-.02181	-.02962	-.17930	-.20798	-.21712	.98592	.99716
16.000	.00000	4092.95081	247.05661	-.02062	-.02939	-.17963	-.19999	-.21205	.98404	.99404
18.000	.00000	4090.17502	246.67551	-.02290	-.03233	-.18105	-.20169	-.21379	.95473	.99110
20.000	.00000	4093.10327	247.08841	-.01775	-.02806	-.19549	-.19836	-.20803	.86764	.98177
22.000	.00000	4093.18353	247.37231	-.01632	-.02702	-.20975	-.20227	-.20600	.79166	.97084
24.000	.00000	4095.42045	-.05560	-.00230	.01119	.00155	.00231	-.00111	.00056	.00117

GRADIENT

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	QCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.600	.00000	2492.27872	541.01349	.00120	.01292	-.19598	-.26988	-.24366	.98558	.98432
ALPHA	.000	2535.13879	547.51376	-.00594	.00121	-.18918	-.25572	-.24581	1.00167	1.00219
2.000	.00000	2506.12231	545.56604	-.03956	-.03958	-.19114	-.27343	-.26086	.99839	.99769
4.000	.00000	2520.06754	547.80920	-.04558	-.04298	-.19111	-.25945	-.27687	.99740	.99647
6.000	.00000	2526.39132	548.56403	-.04408	-.04235	-.18795	-.24354	-.26656	.99557	.99521
8.000	.00000	2534.98624	549.51871	-.03950	-.03824	-.18457	-.22860	-.25295	.99163	.99577
10.000	.00000	2533.68134	549.35165	-.03861	-.03748	-.18122	-.21787	-.24188	.98922	.98646
12.000	.00000	2522.58533	548.21045	-.04383	-.04268	-.18932	-.21715	-.23972	.98286	.98628
14.000	.00000	2525.19815	548.47064	-.04264	-.04057	-.20134	-.21484	-.23200	.97112	.99360
16.000	.00000	2529.38464	548.87781	-.03884	-.03715	-.21516	-.21352	-.22355	.94994	.99176
18.000	.00000	2529.75348	548.59781	-.04074	-.03861	-.23885	-.22444	-.22437	.91990	.98693
20.000	.00000	2526.75348	548.59781	-.04184	-.04009	-.25007	-.23547	-.22729	.86646	.97925
22.000	.00000	2527.80078	548.81564	-.03970	-.03882	-.28138	-.23547	-.23090	.80333	.97161
24.000	.00000	2531.23740	549.22482	-.03970	-.03882	-.28138	-.24865	-.23090	.80333	.97161
GRADIENT	.00000	3.46090	1.13814	-.01021	-.01213	.00121	-.00089	-.00930	.00095	.00084

GRADIENT

(BET-481) (02 AUG 76)

PARAMETRIC DATA

BETA = 2.000 ELEVON = 15.000
AILRON = .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09*)

ARC 11-97-87-09* 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RM/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.300	2.00000	4095.12855	247.36722	.06472	.09888	-.20451	-.18448	-.35949	1.00350	1.00307
.400	2.00000	4082.81378	247.04141	-.04143	.17439	-.20345	-.19377	-.32869	1.00057	1.00007
.500	2.00000	4094.28510	247.25610	-.02935	-.02670	-.20036	-.19562	-.29198	1.00217	1.00354
.600	2.00000	4093.03870	247.07321	.01683	-.03316	-.19875	-.19873	-.26912	1.00149	1.00191
.700	2.00000	4094.39767	247.26279	.00893	-.01487	-.19487	-.19820	-.24895	1.00012	1.00259
.800	2.00000	4094.94046	247.34369	.00451	-.00936	-.18934	-.19489	-.23247	.99889	1.00180
.900	2.00000	4090.81253	246.76984	-.00576	-.01245	-.18674	-.19908	-.22844	.99412	1.00361
1.000	2.00000	4094.13782	247.16721	-.01292	-.01881	-.18723	-.20125	-.22737	.98142	.99558
1.100	2.00000	4094.01319	247.11044	-.01886	-.02540	-.18268	-.20174	-.22607	.96133	.99395
1.200	2.00000	4092.61813	246.99081	-.02615	-.02389	-.17896	-.20033	-.22258	.93956	.99592
1.300	2.00000	4092.53763	247.00217	-.02031	-.02617	-.18559	-.20045	-.21850	.90316	.99145
1.400	2.00000	4093.15781	247.08237	-.02655	-.02738	-.19632	-.20182	-.21460	.85031	.98362
1.500	2.00000	4091.65585	246.87875	-.02132	-.02711	-.22240	-.21030	-.21417	.78189	.97434
1.600	2.00000	4091.21055	246.82778	-.00894	-.03135	.00104	-.00278	.01938	-.00033	.00012

RM/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	OCOMP	PT1/OC	PT2/OC	PT3/OC	PT4/OC	PT5/OC	PT6/OC	PT7/OC
.600	2.00000	2523.43991	548.01419	-.02623	-.02481	-.19327	-.23160	-.22951	.99516	.99745
.700	2.00000	2532.98480	549.27618	-.02798	-.02598	-.19226	-.22310	-.22612	.99723	.99716
.800	2.00000	2522.34305	548.39687	-.03922	-.03374	-.19459	-.22631	-.23243	.99843	.99740
.900	2.00000	2522.34369	548.53568	-.04343	-.03733	-.19004	-.22852	-.22995	.99894	.99820
1.000	2.00000	2534.44469	549.82889	-.03912	-.03438	-.18231	-.20888	-.21975	.99589	.99534
1.100	2.00000	2530.59875	549.43701	-.04235	-.02757	-.18265	-.20621	-.21759	.99211	.99565
1.200	2.00000	2528.78778	549.21756	-.04528	-.04010	-.18297	-.20408	-.21456	.99839	.99596
1.300	2.00000	2529.93558	549.31174	-.04516	-.04219	-.19113	-.20353	-.21233	.98131	.99524
1.400	2.00000	2538.91565	550.33807	-.04303	-.03752	-.19775	-.20331	-.20331	.95782	.99415
1.500	2.00000	2537.34454	550.15671	-.04455	-.03680	-.19775	-.20691	-.20504	.94633	.99353
1.600	2.00000	2535.37787	549.99299	-.04734	-.04159	-.21423	-.20691	-.20504	.91202	.98753
1.700	2.00000	2531.03384	549.56992	-.04734	-.04159	-.23326	-.22661	-.21623	.84955	.98472
1.800	2.00000	2525.60913	549.07547	-.05033	-.04800	-.23326	-.22661	-.22479	.78329	.97490
1.900	2.00000	2525.60913	549.07547	-.05033	-.04800	-.23326	-.22661	-.22479	.78329	.97490
2.000	2.00000	2525.60913	549.07547	-.05033	-.04800	-.23326	-.22661	-.22479	.78329	.97490
GRADIENT	.00000	-.27419	.09317	-.00325	-.00228	-.00033	.00132	-.00078	.00082	-.00001

ORIGINAL PAGE IS
OF POOR QUALITY

(027838) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
 ARC 11-97-87-094 0A161 ORBITER + PROBES.

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0800 IN. Z0
 SCALE = .0300

BETA = -8.000' ELEVON = .000
 AILRON = .000 BDFLAP = -2.170

PARAMETRIC DATA

RM/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	Q75/OC	Q55/OC	DPT075	DPT055	DPT075	DPT055	DP075	DP055
2.000	-8.00000	4123.09033	3879.05209	258.03827	.98969	.93747	-.03222	-.00715	-.03222	-.00715	-.03222	-.00715
4.000	-8.00000	4124.91620	3875.47940	249.43683	.92079	.90494	-.00346	-.00376	-.00346	-.00376	-.00346	-.00376
6.000	-8.00000	4124.69104	3875.28943	249.40161	.91623	.94357	-.00751	-.00503	-.00751	-.00503	-.00751	-.00503
8.000	-8.00000	4124.73592	3875.32263	249.41327	.91442	.94345	-.00694	-.00571	-.00694	-.00571	-.00694	-.00571
10.000	-8.00000	4124.93939	3875.51498	249.42444	.93307	.94349	-.00291	-.00816	-.00291	-.00816	-.00291	-.00816
12.000	-8.00000	4124.91528	3875.48770	249.42761	.93424	.94610	-.00547	-.01387	-.00547	-.01387	-.00547	-.01387
14.000	-8.00000	4124.22295	3875.27820	249.24475	.89322	.95180	-.00266	-.00512	-.00266	-.00512	-.00266	-.00512
16.000	-8.00000	4124.59313	3875.18427	249.39886	.86331	.97815	-.00598	-.02844	-.00598	-.02844	-.00598	-.02844
18.000	-8.00000	4124.35975	3873.13961	249.23114	.84148	.93706	-.01211	-.03875	-.01211	-.03875	-.01211	-.03875
20.000	-8.00000	4124.34033	3874.96457	249.37579	.80960	.99603	-.02058	-.06353	-.02058	-.06353	-.02058	-.06353
22.000	-8.00000	4122.51056	3873.27280	249.23778	.77560	1.00790	-.02843	-.09142	-.02843	-.09142	-.02843	-.09142
24.000	-8.00000	4123.82751	3874.48828	249.33923	.72747	1.01074	-.05262	-.13651	-.05262	-.13651	-.05262	-.13651
GRADIENT	.00280	-1.09981	-.94067	-.15916	.00164	.00152	-.00107	.00053	-.00107	.00053	-.00107	.00053

RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	Q75/OC	Q55/OC	DPT075	DPT055	DP075	DP055
2.000	-8.00000	2529.47873	1982.61595	946.86279	.91225	.93586	-.01895	-.02053	-.01895	-.02053
4.000	-8.00000	2511.08112	1966.36711	944.71402	.92212	.95241	-.01141	-.01115	-.01141	-.01115
6.000	-8.00000	2514.69373	1959.52137	944.63434	.92947	.95280	-.01001	-.01101	-.01001	-.01101
8.000	-8.00000	2512.54620	1967.75583	945.17239	.92726	.94922	-.00973	-.01152	-.00973	-.01152
10.000	-8.00000	2513.75279	1958.71571	944.79537	.93789	.95360	-.00977	-.01111	-.00977	-.01111
12.000	-8.00000	2515.87339	1971.45058	945.03708	.94534	.94565	-.00813	-.01376	-.00813	-.01376
14.000	-8.00000	2517.90707	1972.36116	945.42282	.94345	.95508	-.00939	-.01912	-.00939	-.01912
16.000	-8.00000	2514.71823	1959.67972	945.54593	.92073	.95776	-.01092	-.02529	-.01092	-.02529
18.000	-8.00000	2507.01141	1962.70595	944.30548	.88071	.92958	-.01315	-.03722	-.01315	-.03722
20.000	-8.00000	2513.52756	1968.36823	945.30548	.85887	.90447	-.01766	-.04915	-.01766	-.04915
22.000	-8.00000	2520.12943	1974.29993	945.15933	.82574	.90447	-.02323	-.07000	-.02323	-.07000
24.000	-8.00000	2522.65769	1976.55684	946.13086	.73211	.91536	-.03417	-.10271	-.03417	-.10271
GRADIENT	.00002	-4.52492	-3.95781	-.65711	.00431	.00424	-.00223	.00238	-.00223	.00238

UNCLASSIFIED DATA

ARC 11-97-87-09+ 0A161 ORBITER + PROBES

(067839) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6900 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH =

.300
ALPHA

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	PT	P	OCOMP	Q75/QC	Q66/QC	DPTQ75	DPTQ66	DPTQ75	DPTQ66
-5.00000	4113.57965	3870.79816	248.78149	94823	97850	-0.0003	-0.0550	-0.0547	-0.1548
-5.00000	4123.57532	3874.21957	249.35577	93310	96980	-0.0356	-0.0190	-0.0914	-0.2924
-5.00000	4121.73639	3872.64182	249.09460	93810	97510	-0.0043	-0.0479	-0.0556	-0.2076
-5.00000	4121.43103	3872.42984	249.06122	94455	97257	-0.0163	-0.0134	-0.0553	-0.1796
-5.00000	4121.81604	3872.72128	249.09479	95411	97179	-0.0155	-0.0200	-0.0586	-0.2004
-5.00000	4119.14974	3870.26093	248.83762	94995	96229	-0.0156	-0.0276	-0.0113	-0.3443
-5.00000	4118.78351	3869.92828	248.85522	93093	97038	-0.0202	-0.0143	-0.0218	-0.1862
-5.00000	4118.52954	3869.69580	248.83374	91255	98819	-0.0139	-0.0174	-0.0366	-0.0679
-5.00000	4121.14739	3872.09952	249.04761	88983	1.00855	-0.0160	-0.0139	-0.0221	-0.0997
-5.00000	4121.60559	3872.54218	249.06342	86109	1.02090	-0.0716	-0.0128	-0.1417	-0.0717
-5.00000	4121.58350	3872.43271	249.15082	82250	1.02369	-0.0568	-0.0440	-0.1913	-0.1922
-5.00000	4122.00201	3872.86795	249.13409	77957	1.03745	-0.0798	-0.1231	-0.2418	-0.1540
-5.00000	4120.84576	3871.79938	249.04639	74806	1.03546	-0.128	-0.1877	-0.2651	-0.2190
-5.00000	53923	46094	0.7828	-0.0253	-0.0095	-0.0010	-0.0018	-0.0275	-0.0107

MACH =

.600
ALPHA

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	PT	P	OCOMP	Q75/QC	Q66/QC	DPTQ75	DPTQ66	DPTQ75	DPTQ66
-5.00000	2506.31174	1962.16986	544.14188	94851	98380	-0.0252	-0.0672	-0.0517	-0.0975
-5.00000	2506.26218	1962.16408	544.09811	94074	97458	-0.0538	-0.0679	-0.0662	-0.1929
-5.00000	2511.81845	1967.11473	544.70374	93987	97817	-0.0573	-0.0650	-0.0825	-0.1372
-5.00000	2509.66660	1965.10603	544.56058	94628	98219	-0.0520	-0.0628	-0.0517	-0.0966
-5.00000	2511.31799	1966.64787	544.67014	95690	97447	-0.0310	-0.0626	-0.0419	-0.1734
-5.00000	2512.78818	1969.01511	544.77307	95524	99599	-0.0485	-0.1182	-0.0201	-0.2936
-5.00000	2509.95386	1955.34454	544.60922	94376	97457	-0.0600	-0.1647	-0.0559	-0.0962
-5.00000	2514.28763	1959.15411	545.13351	94244	97092	-0.0716	-0.2254	-0.0622	-0.0741
-5.00000	2521.94302	1976.00002	545.94302	89629	95111	-0.0911	-0.3039	-0.0684	-0.2101
-5.00000	2517.48352	1972.03178	545.45175	85787	93477	-0.1471	-0.4445	-0.1353	-0.2633
-5.00000	2515.42865	1970.18526	545.24341	83148	94033	-0.1999	-0.5552	-0.1828	-0.3012
-5.00000	2517.02257	1971.62352	545.41806	79295	94849	-0.2329	-0.6751	-0.2154	-0.4420
-5.00000	2512.80313	1967.85872	544.94443	75311	93795	-0.4465	-1.4510	-0.2837	-0.7936
-5.00000	1.37567	1.23623	14046	-0.0216	-0.0141	-0.0060	-0.0047	-0.0152	-0.0099

(GE7840) (02 AUG 75)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
AIRLON = .000 BOFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-87-87-094)
ARC 11-87-87-094 0A161 ORBITER + PROBES.

REFERENCE DATA

SREF = 2698.0000 SQ.FT. YMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 3.98 GRADIENT INTERVAL = -5.004 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DPT075	DPT066	DPT075	DPT066
300	.000	-2.00000	4121.05066	3872.04562	249.00507	.94306	.99603	-.00341	-.00853	.05697	.01251
2.000	.000	-2.00000	4127.24060	3877.55872	249.68188	.93571	.98919	-.00017	-.00128	.06740	.00955
4.000	.000	-2.00000	4127.63379	3877.91748	249.71631	.93368	.99768	.00088	-.00195	.07110	.00936
6.000	.000	-2.00000	4127.47223	3877.76532	249.70691	.93553	.98376	-.00016	-.00040	.06761	.01611
8.000	.000	-2.00000	4125.35101	3875.94351	249.40753	.94405	.96546	.00182	-.00005	.06109	.03573
10.000	.000	-2.00000	4125.09515	3875.72934	249.36584	.94697	.95329	.00002	-.00146	.05602	.04753
12.000	.000	-2.00000	4127.15957	3877.49863	249.66997	.94168	.97588	.00144	-.00773	.06337	.01696
14.000	.000	-2.00000	4127.72009	3877.98013	249.73899	.94270	.98192	.00085	-.01353	.06449	.02539
16.000	.000	-2.00000	4125.48828	3876.07739	249.41089	.96002	1.01733	.00610	-.02758	.13023	-.04461
18.000	.000	-2.00000	4127.15497	3877.49768	249.65729	.94607	1.03735	-.01124	-.04537	.17870	-.08137
20.000	.000	-2.00000	4126.50238	3876.97098	249.53143	.96701	1.04566	-.01581	-.07497	.19336	-.11664
22.000	.000	-2.00000	4122.64178	3873.43033	249.21149	.81334	1.06059	-.02749	-.11586	.20200	-.17298
24.000	.000	-2.00000	4121.59155	3872.40952	249.18207	.78117	1.03255	-.03587	-.17757	.22808	-.20910
GRADIENT		.00000	1.64579	1.46798	.17781	-.00234	.00042	.00087	-.00262	.00353	-.00304

MACH	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DPT075	DPT066	DPT075	DPT066
600	.000	-2.00000	2501.29996	1957.66508	543.63489	.94998	.98904	-.00360	-.00660	.04905	.00448
2.000	.000	-2.00000	2511.32452	1956.74553	544.57981	.94033	.98134	-.00449	-.00352	.05896	.00522
4.000	.000	-2.00000	2512.74292	1957.94153	544.80139	.94079	.99865	-.00385	-.00419	.05909	.00284
6.000	.000	-2.00000	2512.11310	1957.36555	544.74756	.93998	.98475	-.00578	-.00430	.05921	.01119
8.000	.000	-2.00000	2517.33130	1971.99802	545.34128	.94331	.96570	-.00496	-.00589	.05614	.02953
10.000	.000	-2.00000	2514.05701	1969.06721	544.98861	.94187	.95416	-.00550	-.00889	.05613	.03915
12.000	.000	-2.00000	2508.66873	1964.19490	544.47385	.94224	.98249	-.00480	-.00885	.05650	.00884
14.000	.000	-2.00000	2515.03255	1959.84284	545.19662	.92176	.98377	-.00543	-.01566	.07846	.00897
16.000	.000	-2.00000	2518.78275	1973.21881	545.55393	.88863	.96910	-.00890	-.02579	.11642	.03559
18.000	.000	-2.00000	2515.10529	1959.86589	545.23841	.85679	.95723	-.01376	-.04130	.15339	.00359
20.000	.000	-2.00000	2515.90900	1970.60928	545.29971	.83757	.95569	-.01774	-.06376	.17619	.01739
22.000	.000	-2.00000	2516.35815	1971.02711	545.33105	.82199	.96332	-.02465	-.10078	.19192	-.06294
24.000	.000	-2.00000	2514.59457	1959.37999	545.21460	.79377	.95183	-.03621	-.16479	.22360	-.11418
GRADIENT		.00000	2.86074	2.55911	.29163	-.00230	.00248	.00086	.00060	.00251	-.00183

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OF POOR QUALITY

TABULATED DATA - 0A161 (ARC 11-97-87-894)

ARC 11-97-87-894 0A161 ORBITER + PROBES.

(02 AUG 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6000 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RVNL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DPT075	DPT066	DPT075	DPT066
	.300	.0000	4125.41028	3876.67133	249.73895	93310	.97698	.00721	.00543	.06449	.02899
	.000	.0000	4125.70245	3873.51007	249.19238	93295	.97837	.00042	.00158	.07145	.02053
	2.000	.0000	4119.92072	3870.95203	248.96869	92837	1.00171	.00006	.00042	.07709	.00213
	4.000	.0000	4122.39331	3873.22900	249.18.31	92870	.99481	.00162	.00027	.07724	.00548
	6.000	.0000	4122.70056	3873.52737	249.7322	93837	.98079	.00024	.00313	.06592	.01646
	8.000	.0000	4120.16510	3871.18869	248.7644	94789	.96961	.00004	.00165	.05502	.02363
	10.000	.0000	4120.08838	3871.10510	248.48328	94422	.97115	.00014	.00474	.05222	.02497
	12.000	.0000	4120.50262	3871.47339	249.02924	93570	.98322	.00008	.01226	.05980	.08480
	14.000	.0000	4120.01282	3871.03391	248.97894	92025	1.00787	.00324	.02358	.08332	.03139
	16.000	.0000	4120.13165	3871.14069	248.99697	89107	1.03540	.00550	.04337	.11675	.07255
	18.000	.0000	4119.52338	3870.60745	248.91595	85297	1.05824	.01130	.06800	.16108	.12304
	20.000	.0000	4121.31134	3872.19284	248.11853	82778	1.06187	.02563	.11524	.18240	.17348
	22.000	.0000	4122.39026	3873.14450	249.24579	80203	1.04029	.03366	.17844	.21317	.21516
	24.000	.0000	-1.62236	-1.42981	-1.19257	-08118	.00618	.00179	.00146	.00335	.00778

RVNL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DPT075	DPT066	DPT075	DPT066
	.500	.0000	2495.62769	1952.89360	542.73410	94940	.97833	.00048	.00125	.05377	.02690
	.000	.0000	2511.31277	1966.73986	544.57352	93541	.98381	.00440	.00271	.06465	.01375
	2.000	.0000	2507.01227	1962.82555	544.18674	93232	1.08108	.00561	.00462	.06698	.00570
	4.000	.0000	2504.08737	1960.27747	543.80991	93387	1.10287	.00625	.00511	.06456	.00738
	6.000	.0000	2507.69663	1963.56752	544.12918	94078	.98783	.00596	.00585	.05698	.00647
	8.000	.0000	2511.66223	1967.06766	544.59464	95000	.98164	.00280	.00540	.04953	.01330
	10.000	.0000	2516.93073	1971.58182	545.34894	94522	.98185	.00401	.00991	.05395	.00857
	12.000	.0000	2516.29508	1971.06151	545.23459	94432	.98285	.00388	.01349	.05509	.00396
	14.000	.0000	2519.31281	1973.76817	545.31421	93057	.96638	.00714	.02342	.06747	.01138
	16.000	.0000	2522.01395	1976.05576	545.54465	90195	.98530	.00950	.04250	.09912	.00448
	18.000	.0000	2519.31281	1973.76817	545.54465	88660	.99893	.01339	.06761	.14060	.02478
	20.000	.0000	2520.69785	1974.78084	545.81702	.84226	.97278	.02102	.10939	.16626	.08141
	22.000	.0000	2511.39380	1966.55000	544.84381	.81475	.96680	.03383	.17753	.19355	.14318
	24.000	.0000	2.84615	2.48299	.36316	.00427	.00569	.00152	.00084	.00330	.00655

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -7.170

(GE7842) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES.

PARAMETRIC DATA

BETA = 2.000 ELEVON = .000
AILRON = .000 BOFLAP = -7.170

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0360

RM/L = 3.9E GRADIENT INTERVAL = -5.00/ 5.00

MACH =	380	ALPHA	BETA	PT	P	OCOMP	Q75/0C	Q66/0C	DPT075	DPT066	DPT075	DPT066
	.000	.000	2.00000	4115.48904	3867.03473	248.44531	.93855	.98258	-.00406	-.00669	.06141	.04557
	2.000	.000	2.00000	4114.81775	3866.46124	248.36651	.93650	.98008	.00304	-.00027	.07085	.02025
	4.000	.000	2.00000	4114.38245	3866.06400	248.31848	.93654	1.00562	.00008	.00147	.07403	-.00886
	6.000	.000	2.00000	4114.84680	3866.49384	248.35297	.93061	1.00579	.00013	-.00008	.07469	-.00682
	8.000	.000	2.00000	4113.08344	3864.81985	248.26361	.93805	1.00531	.00009	-.00055	.06994	-.00584
	10.000	.000	2.00000	4112.39301	3864.17383	248.21918	.94667	.97111	-.00154	-.00327	.05480	.02648
	12.000	.000	2.00000	4112.73633	3864.48587	248.25049	.94875	.96835	-.00091	-.00306	.05311	.03856
	14.000	.000	2.00000	4110.27911	3862.33542	247.94373	.94235	.97680	.00311	-.01108	.05314	.01268
	16.000	.000	2.00000	4113.91693	3865.68948	248.22748	.94833	.99251	-.00313	-.02450	.05135	.02390
	18.000	.000	2.00000	4115.94379	3867.40459	248.53912	.93490	1.03730	-.00697	.04067	.06266	-.07653
	20.000	.000	2.00000	4119.10223	3870.18747	248.91479	.94594	1.06386	-.00760	.06636	.08418	-.12638
	22.000	.000	2.00000	4122.01495	3872.79608	249.21687	.87547	1.05317	-.01704	-.10956	.12521	-.16998
	24.000	.000	2.00000	4117.24534	3868.59497	248.65137	.84385	1.03407	-.03076	-.17400	.15429	-.20684
GRADIENT			.00000	-.27441	-.24268	-.03171	-.00250	.01176	.00103	-.00131	.00391	-.01341

RM/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	500	ALPHA	BETA	PT	P	OCOMP	Q75/0C	Q66/0C	DPT075	DPT066	DPT075	DPT066
	.000	.000	2.00000	2511.72870	1967.34569	544.38303	.94102	.97152	-.00195	-.00264	.06072	.02667
	2.000	.000	2.00000	2517.44931	1972.01730	545.43201	.93991	.98731	-.00264	-.00364	.06129	.00922
	4.000	.000	2.00000	2521.57040	1975.62624	545.94418	.93197	1.00154	-.00294	-.00309	.07003	-.08464
	6.000	.000	2.00000	2515.75599	1970.71048	545.04642	.93495	1.00536	-.00237	-.00387	.06624	-.00921
	8.000	.000	2.00000	2535.99307	1986.65511	550.33798	.94052	.00156	-.00431	-.00386	.05893	-.00541
	10.000	.000	2.00000	2545.28705	1993.36383	551.92322	.94441	.97996	-.00516	-.00628	.05382	.04417
	12.000	.000	2.00000	2543.39755	1991.80594	551.58161	.94687	.97926	-.00504	-.00628	.05095	.00936
	14.000	.000	2.00000	2545.79368	1993.84122	551.95847	.94478	.97926	-.00429	-.00538	.0517	.00936
	16.000	.000	2.00000	2547.21573	1995.13454	552.08121	.94478	.95990	-.00608	-.00633	.05050	.01344
	18.000	.000	2.00000	2543.28960	1991.55782	551.73980	.94366	.95244	-.00901	-.00731	.05036	.00953
	20.000	.000	2.00000	2551.08099	1993.48152	552.59949	.94366	.95244	-.00901	-.00731	.05036	.00953
	22.000	.000	2.00000	2551.13522	1996.45233	552.68288	.89052	.97163	-.01233	-.07284	.07433	-.03852
	24.000	.000	2.00000	2544.39563	1992.52005	551.87598	.85136	.96011	-.01788	-.12087	.10506	-.09456
GRADIENT			.00000	2.46045	2.07015	.39829	-.00226	.00731	.03003	-.00024	.00234	-.00783

REFERENCE DATA

SREF = 2698.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300.

MACH = .300

RNVL = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
AILRON = .000 BDELAP = -7.170

ALPHA	BETA	PT	P	OCOMP	07540C	06640C	DP1075	DP1066	DP075	DP066
.000	5.00000	4111.07709	3863.25970	247.82592	.95645	.99838	-.00368	.00388	.04185	.00550
2.000	5.00000	4111.63350	3863.72061	247.91272	.94709	1.00002	.00908	.00022	.05595	.00421
4.000	5.00000	4113.61224	3865.42447	248.18781	.94331	1.00273	.00171	-.00149	.06181	-.00427
6.000	5.00000	4113.71021	3865.51031	248.19589	.94642	.97798	-.00009	.00145	.05552	.02398
8.000	5.00000	4108.65503	3850.95779	247.69733	.95708	.98036	.00157	.00187	.04660	.02191
10.000	5.00000	4111.06720	3863.19644	247.87079	.96806	.96185	-.00156	.00122	.04222	.03845
12.000	5.00000	4109.18353	3861.44827	247.73529	.96906	.97063	.00079	-.00736	.03272	.02889
14.000	5.00000	4111.46014	3863.48688	247.97327	.96332	.97214	.00402	-.01056	.04210	.01810
16.000	5.00000	4118.21577	3870.12688	248.78912	.96222	.98370	-.00003	.02298	.03223	-.00641
18.000	5.00000	4119.71191	3870.79443	248.91748	.94196	1.02329	-.00817	-.03825	.05343	-.06292
20.000	5.00000	4124.50134	3875.14908	249.35229	.92387	.04693	-.01527	.07166	.06113	-.11648
22.000	5.00000	4123.99310	3874.71460	249.27850	.90882	.05321	-.02232	-.11527	.07801	-.16579
24.000	5.00000	4116.33838	3867.85544	248.48297	.89457	.02873	-.03487	-.18290	.08598	-.21083
GRADIENT	.00000	.63383	.54342	.09035	-.00329	.00109	.00135	-.00134	.00493	-.00243

MACH = .600

RNVL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	P	OCOMP	07540C	06640C	DP1075	DP1066	DP075	DP066
.000	5.00000	2539.89575	1988.74246	551.15329	.95345	1.00007	-.00585	-.00184	.04298	-.00191
2.000	5.00000	2543.77445	1992.01917	551.75238	.94566	1.00166	-.00388	-.00410	.05358	-.00576
4.000	5.00000	2547.62610	1995.52219	552.10391	.94451	1.00954	-.00377	-.00243	.05498	-.01183
6.000	5.00000	2543.32291	1991.71695	551.60599	.94848	.98581	-.00277	-.00357	.05154	.01083
8.000	5.00000	2542.63598	1990.55530	552.08666	.95442	.97599	-.00373	-.00354	.04395	.02106
10.000	5.00000	2545.97491	1993.46725	552.50765	.95702	.96373	-.00438	-.00402	.02972	.03354
12.000	5.00000	2543.11087	1990.86940	552.24149	.97176	.98758	-.00317	-.00484	.02599	.08773
14.000	5.00000	2547.63428	1994.94937	552.68494	.95993	.97020	-.00397	-.01448	.03776	.31623
16.000	5.00000	2552.74863	1999.50385	553.24478	.95498	.95202	-.00479	-.02834	.04235	.02808
18.000	5.00000	2540.55671	1988.56577	552.00096	.95106	.96647	-.00801	-.04951	.04345	-.01481
20.000	5.00000	2537.67148	1986.08488	551.58664	.93553	.97073	-.01119	-.07825	.05772	.04810
22.000	5.00000	2543.69781	1991.43520	552.26263	.91721	.97564	-.01896	-.13187	.07130	-.10690
24.000	5.00000	2543.88870	1991.44173	552.44699	.89728	.97496	-.02778	-.22968	.08670	-.20393
GRADIENT	.00000	1.93258	1.69493	.23766	-.00223	.00236	.00852	-.00015	.00300	-.00243

ARC 11-97-87-09% OA16J ORBITER + PROBES.

REFERENCE DATA

SREF = 2500.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.8000 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

MACH = .300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00.

PARAMETRIC DATA

BETA = -5.000 ELEVON = 15.000
AILRON = .000 BOFLAP = -7.170

ALPHA	BETA	PT	P	OCOMP	075/OC	065/OC	DP1075	DP1066	DP075	DP066
.000	-5.00000	4083.68168	3837.51010	246.18158	.93721	.97577	-.00096	-.00191	-.06504	.02292
2.000	-5.00000	4080.42380	3834.50214	245.92166	.93980	.93286	.00184	-.00184	-.06590	.01561
4.000	-5.00000	4082.97000	3836.85544	246.11456	.93626	.93177	-.00030	-.00186	-.06779	.01571
6.000	-5.00000	4080.83282	3834.86475	245.96808	.94001	.98401	.00488	-.00593	.06092	.01123
8.000	-5.00000	4080.96622	3835.00128	245.90494	.95385	.97846	.00212	-.00858	.06050	.01342
10.000	-5.00000	4083.33157	3837.10403	246.22754	.97453	.97453	-.00173	-.01021	.04962	.01592
12.000	-5.00000	4083.19510	3836.95032	246.24478	.92980	.99288	-.00420	-.01627	.07130	-.00008
14.000	-5.00000	4085.79639	3839.35828	246.43811	.90514	.01024	-.00408	-.02568	.10873	-.03582
16.000	-5.00000	4083.73492	3837.47116	246.26378	.88434	.03073	-.00827	-.04551	.12851	-.07533
18.000	-5.00000	4082.53638	3836.36569	246.17068	.85174	.05305	-.01543	-.06869	.15864	-.11937
20.000	-5.00000	4086.27255	3839.77493	246.49762	.80923	.06678	-.02119	-.09780	.21495	-.16040
22.000	-5.00000	4082.56488	3836.49777	246.06711	.77915	.06072	-.03052	-.14829	.25293	-.20554
24.000	-5.00000	4082.27554	3836.16763	246.10791	.73432	1.01335	-.05185	-.21000	.30897	-.28317
GRADIENT	.00000	-.18042	-.16366	-.01675	-.00024	.00150	.00017	.00001	.08044	-.08155

MACH = .600

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	P	OCOMP	075/OC	065/OC	DP1675	DP1066	DP075	DP066
.000	-5.00000	2503.66928	1961.08168	542.58768	.93847	.97594	-.01230	-.00859	.05327	.01700
2.000	-5.00000	2508.03470	1964.87794	543.15672	.93886	.97923	-.00747	-.00608	.05993	.01521
4.000	-5.00000	2584.84750	1961.84412	543.00338	.94117	.98358	.00552	-.06514	.05699	.01156
6.000	-5.00000	2587.57928	1964.30646	543.27283	.94410	.97807	.00661	-.00664	.05328	.01578
8.000	-5.00000	2507.23706	1964.02145	543.21561	.95090	.95463	.00581	-.00678	.04583	.04075
10.000	-5.00000	2515.97717	1971.73871	544.23846	.95140	.95788	.00513	-.01279	.04595	.03118
12.000	-5.00000	2513.42737	1969.43301	543.98435	.93694	.96993	.00811	-.02023	.05219	.01078
14.000	-5.00000	2505.08347	1962.94601	543.13745	.92059	.96425	.00706	-.02528	.07219	.01160
16.000	-5.00000	2503.21774	1960.48389	542.73386	.89837	.95233	.00960	-.03278	.10353	.01727
18.000	-5.00000	2503.51517	1960.81487	542.70032	.86848	.94492	-.01429	-.05334	.13715	.04495
20.000	-5.00000	2501.39257	1958.86124	542.52133	.83161	.94391	.01923	-.07982	.18325	.01960
22.000	-5.00000	2502.79318	1960.06981	542.72339	.78817	.94209	-.03179	-.11426	.23886	.05279
24.000	-5.00000	2510.39862	1966.80496	543.59366	.74665	.92277	-.04632	-.17814	.29298	.08845
GRADIENT	.00000	.29455	.19063	.10393	.00057	.00213	.00169	.00086	.00093	-.08136

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

(GE7846) (02 AUG 78)

PARAMETRIC DATA

BETA =
AIRLON =
-2.000 ELEVON = 15.000
.000 BOFLAP = -7.170

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH.	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DP1066	DP1075	DP075	DP066
	.300										
	.000	-2.00000	4083.06894	3842.48010	246.58884	94277	99304	-0.0014	0.0425	0.0495	0.0667
	2.000	-2.00000	4091.17761	3844.27921	246.89841	93423	1.00075	-0.0060	-0.0191	0.06049	-0.0135
	4.000	-2.00000	4091.68335	3844.71561	246.96774	93420	.99999	0.00114	0.0114	0.07158	0.0290
	6.000	-2.00000	4089.27725	3842.65396	246.62329	93359	98370	0.0027	0.0185	0.07299	0.0684
	8.000	-2.00000	4089.24741	3842.63040	246.61700	93359	96321	-0.0343	0.0187	0.06253	0.0476
	10.000	-2.00000	4089.48151	3842.83499	246.64651	94679	97914	-0.0528	0.0317	0.05937	0.0602
	12.000	-2.00000	4089.44775	3842.80380	246.64395	93651	1.00586	-0.0731	0.0339	0.07119	-0.0131
	14.000	-2.00000	4089.15720	3842.55430	246.60287	90959	1.03362	-0.1809	0.0275	1.0214	-0.0562
	16.000	-2.00000	4091.20270	3844.30038	246.90231	86699	1.04878	-0.3566	0.0527	1.4814	-0.0808
	18.000	-2.00000	4090.50607	3843.72888	246.77719	84282	1.07093	-0.5766	0.0348	1.8301	-0.1238
	20.000	-2.00000	4085.35025	3839.14899	246.20126	80257	1.09671	-0.9251	0.01632	2.0235	-0.1849
	22.000	-2.00000	4087.08173	3840.70343	246.37830	80917	1.05407	-1.3800	0.02471	2.1113	-0.18930
	24.000	-2.00000	4092.22760	3845.23996	246.98784	77658	1.02574	-2.0475	0.04195	2.4575	-0.22984
GRADIENT		.00000	.65365	.55888	.09473	-.00214	.00174	.00076	-.00076	.00165	-.00099

MACH.	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DP1066	DP1075	DP075	DP066
	.600										
	.000	-2.00000	2497.21130	1955.14626	542.08506	94255	98863	-0.0407	0.00413	0.05682	0.0723
	2.000	-2.00000	2497.06388	1955.15842	541.90466	94398	99925	-0.0273	-0.0388	0.05947	-0.0197
	4.000	-2.00000	2504.31854	1961.54137	542.77719	94334	99349	-0.0339	-0.0462	0.05644	0.0316
	6.000	-2.00000	2502.25977	1959.92384	542.33584	94644	97991	-0.0389	-0.0327	0.05332	0.0652
	8.000	-2.00000	2498.75104	1957.72684	542.02420	95222	96618	-0.0529	-0.0253	0.04784	0.02972
	10.000	-2.00000	2510.79306	1967.57306	543.22800	94336	98892	-0.0840	-0.0216	0.05787	0.02358
	12.000	-2.00000	2510.94430	1967.58032	543.36388	93865	98065	-0.1096	-0.0431	0.06105	0.00878
	14.000	-2.00000	2503.96127	1961.27100	542.67029	92276	97799	-0.1850	-0.0196	0.07772	0.00390
	16.000	-2.00000	2506.06129	1963.25845	542.67029	88975	95595	-0.3050	-0.0599	1.1649	0.01599
	18.000	-2.00000	2500.93432	1958.61502	542.31900	85998	95284	-0.742	-0.0742	1.5015	-0.0147
	20.000	-2.00000	2494.98862	1953.29674	541.69189	84241	96739	-0.0937	-0.1266	1.8926	-0.0443
	22.000	-2.00000	2503.14465	1960.56935	542.57532	82387	96072	-0.07814	-0.1782	1.8872	-0.08372
	24.000	-2.00000	2509.37143	1966.01462	543.35581	79391	92877	-0.03776	-0.2302	2.2483	-0.11633
GRADIENT		.00000	1.77681	1.59889	.17803	.00020	.00117	.00017	-.00012	-.08034	-.00102

(GE78481 (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH =

ALPHA =

BETA	PT	P	OCOMP	075/OC	066/OC	DP075	DP066
2.00000	4095.12866	3847.76144	247.36728	.94621	.97818	.06010	.02589
2.00000	4092.81378	3845.77237	247.04141	.93362	1.00427	.07117	-.00358
2.00000	4094.28610	3847.03000	247.25610	.93187	1.01296	.07691	-.01065
2.00000	4093.03870	3845.96548	247.07321	.93210	1.00830	.07498	-.00573
2.00000	4094.39767	3847.13489	247.26279	.93801	1.00662	.06878	-.00646
2.00000	4094.94346	3847.59677	247.34368	.95525	.95190	.05354	.03788
2.00000	4090.81253	3844.04269	246.76984	.95421	.98562	.05177	.00883
2.00000	4094.13782	3846.97061	247.16721	.94278	1.00553	.05800	-.02398
2.00000	4094.01318	3846.90274	247.11044	.94096	1.07470	.05675	-.12575
2.00000	4092.61813	3845.62732	246.99384	.93445	1.10556	.07935	-.18673
2.00000	4092.53760	3845.53543	247.00217	.91855	1.07216	.12453	-.20682
2.00000	4093.15781	3846.07544	247.08237	.87487	1.01938	.16884	-.25297
2.00000	4091.65585	3844.77710	246.87875	.83591	1.01838	.00420	-.00913
2.00000	4091.21065	3844.18286	246.82778	-.00358	.00869		

GRADIENT

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH =

ALPHA =

BETA	PT	P	OCOMP	075/OC	066/OC	DP075	DP066
2.00000	2523.43991	1975.42574	548.01419	.94788	.97540	.05228	.02326
2.00000	2532.93480	1983.70862	548.27618	.93534	1.00181	.06610	-.00458
2.00000	2522.34305	1973.95619	548.36697	.93483	1.01243	.06894	-.01383
2.00000	2522.34369	1973.80801	548.53568	.93844	.99684	.06388	-.00091
2.00000	2534.44489	1984.61679	548.82808	.93730	.99097	.06192	.06415
2.00000	2530.58975	1981.16174	549.43781	.94929	.97388	.04884	.01955
2.00000	2528.78778	1979.57022	549.21756	.94916	.98653	.04931	.03188
2.00000	2529.03558	1979.72385	549.31174	.95388	.97298	.04514	.02838
2.00000	2538.91565	1988.57759	550.33807	.94609	.94595	.04858	-.02822
2.00000	2537.34454	1987.18785	550.15671	.92973	.95417	.05525	-.06257
2.00000	2535.37787	1985.38430	549.99298	.91102	.97289	.08489	-.06257
2.00000	2531.03384	1981.45333	549.56982	.89118	.98660	.10417	-.13891
2.00000	2525.60913	1975.53356	549.07547	.85290	.94431	.14303	-.17052
2.00000	2524.19	1975.35739	549.09317	-.00327	.00926	.00366	-.00632

GRADIENT

ORIGINAL PAGE IS
OF POOR QUALITY

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DP1075	DP1066	DP075	DP066
-.300	.000	5.00000	4091.96802	3845.09164	246.81638	.95879	1.00188	.00521	.00543	.04819	.00460
.000	2.000	5.00000	4097.52972	3850.06409	247.46684	.94970	1.01481	.00301	.00223	.05597	-.01436
4.000	4.000	5.00000	4098.69287	3851.08252	247.61035	.94478	.99941	-.00078	-.00591	.05766	-.00522
6.000	6.000	5.00000	4093.69952	3846.57336	247.12618	.94715	.99087	-.00301	-.00123	.05279	.01045
8.000	8.000	5.00000	4091.92636	3845.02399	246.50237	.95506	.98169	.00071	-.00216	.04777	.01649
10.000	10.000	5.00000	4095.28748	3848.03641	247.25107	.96191	.97039	.00071	-.00336	.03719	.02715
12.000	12.000	5.00000	4098.66168	3851.08652	247.57520	.96454	.98454	-.00240	-.00846	.04216	.00724
14.000	14.000	5.00000	4100.06610	3852.32293	247.73621	.95760	.99723	-.00128	-.02239	.04233	-.01951
16.000	16.000	5.00000	4100.09658	3852.37668	247.72033	.94968	1.03113	-.00195	-.03698	.04718	-.05717
18.000	18.000	5.00000	4098.44458	3850.82678	247.61780	.93542	1.07073	-.00581	-.06007	.05922	-.12613
20.000	20.000	5.00000	4094.74744	3847.55252	247.19492	.92762	1.09776	-.00981	-.09025	.06449	-.17931
22.000	22.000	5.00000	4091.30930	3844.44815	246.86115	.91147	1.07321	-.01354	-.14304	.08066	-.21125
24.000	24.000	5.00000	4091.71375	3844.80493	246.84882	.88432	1.02286	-.02703	-.23462	.10378	-.25698
GRADIENT		.00000	1.69521	1.49772	.19849	-.00350	-.00062	-.00150	-.00307	.00237	-.00246

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	075/OC	066/OC	DP1075	DP1066	DP075	DP066
.600	.000	5.00000	2535.04523	1985.09232	549.95291	.95297	.99457	-.00515	-.00624	.04420	.00022
2.000	2.000	5.00000	2530.24927	1980.90170	549.34756	.94653	1.01070	-.00567	-.00474	.05082	-.01532
4.000	4.000	5.00000	2525.68387	1976.83443	548.84346	.94981	1.00985	-.00226	-.00231	.05093	-.01207
6.000	6.000	5.00000	2521.55911	1973.12846	548.43086	.95198	.97980	-.00418	-.00505	.04628	-.01566
8.000	8.000	5.00000	2535.72415	1985.92627	549.79788	.95218	.96840	-.00922	-.00496	.04500	-.02856
10.000	10.000	5.00000	2533.28085	1983.71909	549.56177	.96770	.97734	-.00492	-.00556	.02840	-.01754
12.000	12.000	5.00000	2535.35916	1985.55157	549.80759	.96188	.96825	-.00743	-.01281	.03220	-.00093
14.000	14.000	5.00000	2530.73212	1981.33900	549.39413	.96339	.97917	-.00823	-.02286	.02977	-.00159
16.000	16.000	5.00000	2530.50117	1981.29556	549.30660	.96151	.96293	-.00808	-.03747	.03194	-.00103
18.000	18.000	5.00000	2538.39977	1988.30652	550.08325	.95948	.96948	-.01057	-.06133	.05803	-.01909
20.000	20.000	5.00000	2537.74243	1987.64873	550.09372	.97431	.97392	-.01463	-.10435	.06725	-.07757
22.000	22.000	5.00000	2535.20123	1995.41608	549.78516	.91773	.98630	-.02030	-.18092	.08934	-.16703
24.000	24.000	5.00000	2534.79544	1984.94473	549.85071	.88993	.92786	-.03015	-.26702	.09353	-.18926
GRADIENT		.00000	-2.34033	-2.06445	-.27586	-.00079	.00382	.00072	.00073	.00160	-.00307

10E7X38+ (02 AUG 76)

PARAMETRIC DATA

BETA = -8.000' ELEVON = .000
AILRON = .000' BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SPEF = 2690.0000 SO.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCCMP	M75	M66	P5/PT7	P5/PT6
360	.000	-8.00000	4129.09033	3879.05209	250.03827	.28569	.29023	.94490	.94321
2.000	.000	-8.00000	4124.91620	3875.47940	249.43683	.28729	.29277	.94431	.94224
4.000	.000	-8.00000	4124.69104	3875.28643	249.40161	.28657	.29096	.94456	.94293
6.000	.000	-8.00000	4124.73520	3875.32263	249.41327	.28786	.29096	.94409	.94293
8.000	.000	-8.00000	4124.93933	3875.51498	249.42444	.28923	.29096	.94358	.94292
10.000	.000	-8.00000	4122.15399	3872.94339	249.21063	.28944	.29142	.94350	.94276
12.000	.000	-8.00000	4124.91528	3875.48770	249.24475	.28999	.29237	.94329	.94240
14.000	.000	-8.00000	4122.52295	3873.27820	249.24475	.28379	.29665	.94561	.94076
16.000	.000	-8.00000	4124.583.3	3875.18427	249.39886	.27790	.29974	.94777	.93957
18.000	.000	-8.00000	4122.36975	3873.15861	249.23114	.27423	.29978	.94909	.93955
20.000	.000	-8.00000	4124.34033	3874.96457	249.37579	.26887	.30194	.95100	.93972
22.000	.000	-8.00000	4122.51056	3873.27280	249.23779	.26301	.30219	.95305	.93958
24.000	.000	-8.00000	4123.82751	3874.48828	249.33923	.25461	.30219	.95501	.93952
GRADIENT		.00000	-1.09981	-9.4067	-1.15916	.00022	.00019	-.08008	-.00007

MACH	ALPHA	BETA	PT	P	OCCMP	M75	M66	P5/PT7	P5/PT6
600	.000	-8.00000	2529.47873	1982.61595	546.86279	.57634	.57897	.80204	.79583
2.000	.000	-8.00000	2511.08112	1966.36711	544.71402	.57453	.58541	.80204	.79583
4.000	.000	-8.00000	2511.37903	1966.74471	544.53434	.57700	.58541	.79132	.79290
6.000	.000	-8.00000	2514.60373	1959.52133	545.17239	.57607	.58409	.79868	.79372
8.000	.000	-8.00000	2512.54620	1967.75583	544.73037	.57995	.58568	.79624	.79276
10.000	.000	-8.00000	2513.75278	1958.71571	545.03708	.58250	.58301	.79459	.79438
12.000	.000	-8.00000	2516.37338	1971.45059	545.12282	.58173	.58559	.79516	.79221
14.000	.000	-8.00000	2517.90707	1972.36116	545.54593	.57361	.58800	.80007	.79135
16.000	.000	-8.00000	2514.71823	1969.67972	545.03851	.59932	.57868	.80863	.79700
18.000	.000	-8.00000	2507.01141	1962.70595	544.30548	.55212	.57241	.81291	.80075
20.000	.000	-8.00000	2513.52756	1958.36823	545.15933	.53982	.57190	.82016	.80110
22.000	.000	-8.00000	2520.12943	1974.29933	545.82950	.52266	.57680	.83912	.79903
24.000	.000	-8.00000	2522.68758	1976.55684	546.13086	.50511	.58047	.84014	.79592
GRADIENT		.00000	-4.52492	-3.96781	-1.55711	.00166	.00162	-.00100	-.00098

(GE7X35) 1 02 AUG 78 ;

TABULATED DATA - 0A161 (ARC 11-37-87-094)
ARC 11-37-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SPEC = 3690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

PARAMETRIC DATA

BETA = -5.000 ELEVON = .000
ALLRON = .000 BDFLAP = -7.170

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/PT7	P6/PT6
300	.000	-5.00000	4119.57955	3870.79816	248.78149	.28447	.28532	.94274	.94089
2.000	.000	-5.00000	4123.57532	3874.21957	249.35577	.28928	.29512	.94356	.94135
4.000	.000	-5.00000	4121.73639	3872.64182	249.09460	.28996	.29559	.94331	.94153
6.000	.000	-5.00000	4121.49103	3872.42884	249.06122	.28957	.29553	.94293	.94119
8.000	.000	-5.00000	4121.81604	3872.72128	249.02479	.29250	.29540	.94293	.94124
10.000	.000	-5.00000	4119.14874	3870.26493	248.88782	.28484	.29387	.94288	.94163
12.000	.000	-5.00000	4118.78351	3869.92828	248.85522	.28979	.29364	.94375	.94130
14.000	.000	-5.00000	4118.52954	3869.69980	248.83374	.28581	.29804	.94485	.94023
16.000	.000	-5.00000	4121.14709	3972.09962	249.04764	.28213	.30139	.94622	.95893
18.000	.000	-5.00000	4121.60559	3872.54218	249.06342	.27741	.30348	.94795	.93811
20.000	.000	-5.00000	4121.58350	3872.43271	249.15882	.27104	.30319	.95023	.93744
22.000	.000	-5.00000	4122.00201	3872.85735	249.13408	.26367	.30680	.95282	.93581
24.000	.000	-5.00000	4120.84576	3871.79938	249.04639	.25818	.30770	.95471	.93689
GRADIENT			.53823	.46094	.07828	-.00838	-.00211	.00014	.00004

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/PT7	P6/PT6
800	.000	-5.00000	2505.31174	1962.16986	544.14189	.58370	.58558	.79396	.78810
2.000	.000	-5.00000	2506.26218	1962.16408	544.09811	.58116	.59329	.79350	.78812
4.000	.000	-5.00000	2511.81845	1967.11473	544.79374	.58043	.59431	.79395	.78749
6.000	.000	-5.00000	2509.66660	1965.10603	544.55058	.58289	.59393	.79445	.78550
8.000	.000	-5.00000	2511.31799	1966.64787	544.67014	.58639	.59308	.79233	.78820
10.000	.000	-5.00000	2512.78818	1968.01511	544.77387	.58578	.58798	.79270	.79135
12.000	.000	-5.00000	2509.25366	1955.34464	544.50922	.58204	.59381	.79497	.78780
14.000	.000	-5.00000	2514.28763	1969.15411	545.13351	.57419	.59288	.79972	.78843
16.000	.000	-5.00000	2521.94302	1976.00002	545.84302	.56428	.58567	.80567	.79281
18.000	.000	-5.00000	2517.48352	1972.03178	545.45175	.55460	.58096	.81144	.79553
20.000	.000	-5.00000	2515.42865	1970.18526	545.24341	.54159	.58449	.81912	.79348
22.000	.000	-5.00000	2517.02057	1971.60252	545.41806	.52754	.58977	.82731	.79227
24.000	.000	-5.00000	2512.80313	1967.65872	544.94443	.51333	.58952	.83547	.79035
GRADIENT			1.37667	1.23523	.40446	-.00082	-.00057	.00050	.00035

(SE7X4C) (02 AUG 76)

PARAMETRIC DATA

BETA = -2.000 ELEVON = .000
MILRON = .080 BDCLAP = -7.170

TABULATED DATA - 04161 (ARC 11-97-87-094)

ARC 11-97-87-094 04161 ORBITER + PRORES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREL = 474.8000 IN. YMRP = .0000 IN. YO
BPEF = 936.6800 IN. ZMRP = 379.0000 IN. ZO
SCALE = .0380

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/PT7	P6/PT6
.300	.000	-2.00000	4.121.05066	3872.04562	249.00507	.29075	.29982	.94301	.93895
.000	2.000	-2.00000	4.127.24060	3877.55872	249.68188	.28989	.29823	.94333	.94015
2.000	4.000	-2.00000	4.127.63379	3877.91748	249.71631	.28941	.29838	.94351	.93563
4.000	6.000	-2.00000	4.127.47223	3877.76532	249.70681	.29987	.29438	.94334	.94648
6.000	8.000	-2.00000	4.125.35101	3875.94351	249.40753	.29895	.29438	.94293	.94163
8.000	10.000	-2.00000	4.125.09515	3875.72934	249.40753	.29142	.29244	.94275	.94237
10.000	12.000	-2.00000	4.127.15957	3877.49863	249.65987	.29057	.29519	.94304	.94084
12.000	14.000	-2.00000	4.127.72003	3877.98013	249.73998	.28602	.29878	.94278	.93894
14.000	16.000	-2.00000	4.125.48828	3876.07738	249.41088	.28061	.30277	.94678	.93839
16.000	18.000	-2.00000	4.127.15497	3877.49758	249.65729	.27507	.30765	.94879	.93547
18.000	20.000	-2.00000	4.126.50238	3876.97099	249.53143	.27183	.30765	.94995	.93541
20.000	22.000	-2.00000	4.122.64178	3873.43033	249.21149	.26953	.31033	.95377	.93887
22.000	24.000	-2.00000	4.121.59155	3872.43952	249.18207	.26578	.31653	.95209	.93887
GRADIENT			1.64579	1.46798	.17781	-.03034	.00014	.00013	-.00005

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/PT7	P6/PT6
.600	.000	-2.00000	2501.29936	1957.66508	543.63489	.58466	.59881	.79335	.78474
.000	2.000	-2.00000	2511.32452	1956.74553	544.57901	.58050	.59860	.79590	.78487
2.000	4.000	-2.00000	2512.74292	1967.94153	544.80139	.58057	.60118	.79586	.78328
4.000	6.000	-2.00000	2512.11310	1967.36555	544.74756	.58010	.59532	.79614	.78625
6.000	8.000	-2.00000	2517.33130	1971.99002	545.34128	.58127	.59833	.79544	.79054
8.000	10.000	-2.00000	2514.05701	1969.06721	544.98981	.58102	.59565	.79559	.79278
10.000	12.000	-2.00000	2508.56873	1954.19490	544.47385	.58150	.59616	.79530	.78636
12.000	14.000	-2.00000	2515.03925	1959.84264	545.19662	.57377	.59670	.79997	.78603
14.000	16.000	-2.00000	2518.78275	1973.21881	545.56393	.59173	.59192	.80719	.78695
16.000	18.000	-2.00000	2515.10329	1959.86589	545.23941	.59064	.59307	.81378	.79069
18.000	20.000	-2.00000	2515.90900	1970.60928	545.29971	.54370	.59305	.81789	.79099
20.000	22.000	-2.00000	2516.35815	1971.02711	545.31105	.53324	.59552	.82108	.78575
22.000	24.000	-2.00000	2514.59457	1959.37939	545.21460	.53516	.59582	.82682	.78636
GRADIENT			2.86074	2.56911	.29153	-.00102	.00059	.00062	-.00035

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OF POOR QUALITY

REFERENCE DATA

SREF = 2690.0000 SO.FT. XPRP = 1076.6800 IN. XO
 LREF = 974.6000 IN. YPRP = .0000 IN. YO
 BREF = 936.6800 IN. ZPRP = 375.0000 IN. ZO
 SCALE = .0300

MACH = .300

RV/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	P	QCOMP	M75	M55	P5/P17	P6/P16
.000	.00000	4126.41028	3876.67133	249.73896	.28943	.29532	.94350	.94089
2.000	.00000	4122.70245	3873.51007	249.19238	.28916	.29540	.94351	.94086
4.000	.00000	4119.92072	3870.95203	249.86869	.28939	.29531	.94390	.93946
6.000	.00000	4122.39331	3873.22900	249.16431	.28961	.29536	.94391	.93997
8.000	.00000	4122.70056	3873.52737	249.17323	.29001	.29579	.94329	.94071
10.000	.00000	4120.16510	3871.18859	248.57644	.29151	.29592	.94272	.94140
12.000	.00000	4120.06338	3871.10510	249.99328	.29233	.29526	.94294	.94132
14.000	.00000	4120.50262	3871.47339	249.98224	.28938	.29724	.94345	.94263
16.000	.00000	4120.01282	3871.03391	248.97894	.28710	.30120	.94338	.93501
18.000	.00000	4120.13153	3871.14069	248.99097	.28237	.30566	.94613	.93726
20.000	.00000	4119.52328	3870.50745	248.91595	.27507	.30940	.94843	.93578
22.000	.00000	4121.31134	3872.19284	249.11853	.27193	.31051	.94990	.93534
24.000	.00000	4122.39026	3873.14450	249.24579	.26765	.30784	.95143	.93640
GRADIENT	.00000	-1.62236	-1.42991	-1.19257	-.00026	.00092	.00010	-.00036

RV/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	BETA	PT	P	QCOMP	M75	M55	P5/P17	P6/P16
.000	.00000	2495.62769	1952.89360	542.73410	.58438	.59482	.79355	.78718
2.000	.00000	2511.31277	1966.73926	544.57352	.57873	.59587	.79698	.78654
4.000	.00000	2507.01227	1962.82555	544.18674	.57924	.60248	.79740	.78248
6.000	.00000	2504.08737	1960.27747	543.80931	.57880	.60310	.79693	.78109
8.000	.00000	2507.69569	1963.56752	544.12918	.58038	.59775	.79551	.78539
10.000	.00000	2511.66229	1957.05765	544.59464	.58361	.59525	.79390	.78691
12.000	.00000	2516.33073	1971.58182	545.34891	.58154	.59542	.79503	.78681
14.000	.00000	2516.23608	1971.06151	545.23459	.58162	.59606	.79522	.78542
16.000	.00000	2516.71591	1971.40170	545.31421	.57691	.59390	.79538	.78538
18.000	.00000	2519.31281	1973.76817	545.54465	.56554	.59110	.80432	.79131
20.000	.00000	2522.01395	1976.05576	545.95819	.56377	.58606	.81193	.78946
22.000	.00000	2520.69765	1974.78084	545.91702	.54539	.58343	.81689	.78435
24.000	.00000	2511.39363	1966.55000	544.84361	.53636	.60303	.82218	.78214
GRADIENT	.00000	2.84615	2.48299	.36316	-.00159	.00191	.00038	-.00118

MACH = .600

TABULATED DATA - 0A161 (ARC 11-97-87-094)

ARC 11-97-87-094 0A161 ORBITER + PROBES

(0E7X42) (02 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

BETA = 2.000 ELEVON = .060
AILRON = .000 BDFLAP = -7.178

PARAMETRIC DATA

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/PT7	P6/PT6
.300	.000	2.00000	4115.48004	3867.03473	248.44531	.28990	.29364	.94333	.94191
2.000	.000	2.00000	4114.81775	3865.46124	248.35651	.28948	.29643	.94349	.94085
4.000	.000	2.00000	4114.38245	3866.06400	248.31648	.28922	.30103	.94396	.93907
6.000	.000	2.00000	4114.84680	3866.49394	248.35297	.28956	.30061	.94383	.93923
8.000	.000	2.00000	4113.08344	3864.81995	248.26361	.28977	.30039	.94338	.93932
10.000	.000	2.00000	4112.39301	3864.17393	248.21918	.29115	.29005	.94286	.94137
12.000	.000	2.00000	4112.73633	3864.48587	248.25049	.29149	.29478	.94273	.94148
14.000	.000	2.00000	4110.27911	3862.33542	247.94373	.29193	.29593	.94256	.94104
16.000	.000	2.00000	4113.91693	3865.68948	248.22748	.29139	.29550	.94277	.93966
18.000	.000	2.00000	4115.94379	3867.40469	248.53912	.28938	.30580	.94352	.93720
20.000	.000	2.00000	4119.10223	3870.18747	248.91479	.28643	.31026	.94463	.93544
22.000	.000	2.00000	4122.01495	3872.79608	249.21867	.27995	.31069	.94702	.93526
24.000	.000	2.00000	4117.24634	3868.59497	248.65137	.27460	.30666	.94896	.93666
GRADIENT		.00000	-.27441	-.24268	-.03171	-.00042	.00185	.00016	-.00071

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/PT7	P6/PT6
.600	.000	2.00000	2511.72870	1967.34569	544.38303	.58040	.59132	.79597	.78932
2.000	.000	2.00000	2517.44931	1972.01730	545.43201	.57933	.59687	.79625	.78592
4.000	.000	2.00000	2521.57040	1975.62624	545.94418	.57587	.60162	.79810	.78501
6.000	.000	2.00000	2515.75690	1970.71048	545.04642	.57780	.60326	.79754	.78200
8.000	.000	2.00000	2535.99307	1995.65511	550.33798	.58081	.60250	.79572	.78247
10.000	.000	2.00000	2545.28705	1993.36383	551.32322	.58199	.59475	.79500	.78722
12.000	.000	2.00000	2543.39755	1991.80594	551.59161	.58293	.59553	.79443	.78674
14.000	.000	2.00000	2545.79969	1993.84122	551.35847	.58202	.59513	.79498	.78699
16.000	.000	2.00000	2547.21573	1995.13454	552.08121	.58263	.59603	.79461	.79072
18.000	.000	2.00000	2543.28860	1991.55782	551.73080	.58225	.58801	.79484	.79134
20.000	.000	2.00000	2551.08099	1998.48152	552.59949	.57344	.59195	.80017	.78994
22.000	.000	2.00000	2551.13522	1998.45233	552.68289	.56305	.59999	.80177	.79481
24.000	.000	2.00000	2544.39563	1992.52005	551.87548	.54974	.60206	.81431	.78274
GRADIENT		.00000	2.46045	2.07015	.39029	-.00088	.00257	.00053	-.00198

ARC 11-97-87-094 0A161 ORBITER + PROBES

(0E7X+3) (02 AUG 76)

REFERENCE DATA

SPEF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 574.8000 IN. YMRP = .0000 IN. YO
 SPEF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

BETA =
 AIRLON =

5.000 ELEVON = .000
 .000 BOFLAP = -7.170

PARAMETRIC DATA

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M75	M66	P5/P17	P6/P16
1.70	.000	5.00000	4111.07709	3863.25070	247.82642	.29254	.29307	.94233	.94983
2.000	.000	5.00000	4111.63330	3863.72061	247.91272	.29105	.29339	.94290	.93970
4.000	.000	5.00000	4113.61224	3255.42447	248.18781	.29053	.29993	.94309	.93950
6.000	.000	5.00000	4113.71021	3865.51031	248.99889	.29104	.29603	.94290	.94100
8.000	.000	5.00000	4108.65503	3950.95779	247.59733	.29259	.29628	.94231	.94090
10.000	.000	5.00000	4111.05720	3863.19644	247.87079	.29281	.29340	.94223	.94200
12.000	.000	5.00000	4109.18353	3861.44827	247.73529	.29451	.29483	.94158	.94146
14.000	.000	5.00000	4111.46014	3863.48688	247.97327	.29384	.29516	.94191	.94133
16.000	.000	5.00000	4119.91577	3970.12559	248.78912	.29373	.29733	.94188	.94050
18.000	.000	5.00000	4119.71191	3870.79443	248.91748	.29061	.30402	.94306	.93790
20.000	.000	5.00000	4124.50134	3975.14908	249.35229	.28785	.30779	.94410	.93642
22.000	.000	5.00000	4123.99310	3974.71460	249.27850	.28544	.30918	.94500	.93587
24.000	.000	5.00000	4116.33938	3867.85544	248.48297	.28298	.30584	.94591	.93719
GRADIENT		.00000	.63393	.54342	.09035	-.00050	.00021	.00019	-.0008

RN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M75	M66	P5/P17	P6/P16
1.600	.000	5.00000	2539.89575	1988.74246	551.15329	.58552	.60180	.79285	.78290
2.000	.000	5.00000	2543.77155	1992.01917	551.75238	.58243	.60238	.79472	.78254
4.000	.000	5.00000	2547.62610	1995.52219	552.10391	.58174	.60470	.79515	.78111
6.000	.000	5.00000	2543.32291	1991.71693	551.60599	.58335	.59670	.79417	.78603
8.000	.000	5.00000	2542.63596	1990.55530	552.38066	.58395	.59360	.79259	.78792
10.000	.000	5.00000	2545.97491	1993.46725	552.50766	.59029	.58309	.78995	.79958
12.000	.000	5.00000	2543.11097	1990.86940	552.24149	.59211	.59785	.78684	.78532
14.000	.000	5.00000	2547.63428	1934.94937	552.58491	.58762	.59204	.79158	.78688
16.000	.000	5.00000	2552.74663	1999.50395	553.24478	.58557	.58617	.79283	.79246
18.000	.000	5.00000	2540.56571	1988.56577	552.00095	.58526	.59380	.79302	.78780
20.000	.000	5.00000	2537.67149	1986.08488	551.58661	.58003	.59763	.79619	.78546
22.000	.000	5.00000	2543.69781	1991.43520	552.26263	.57354	.60311	.80011	.78209
24.000	.000	5.00000	2543.88870	1991.54173	552.44699	.56694	.61063	.80408	.77745
GRADIENT		.00000	1.93259	1.59493	.23766	-.00095	.00073	.00058	-.00045

TABULATED DATA - OA161 (ARC 11-97-87-094)

ARC 11-97-87-094 OA16! ORBITER + PROBES.

PREFERENCE DATA

SECF	=	2690.0000	SO.FT.	=	1076.6800	IN.	X0
LECF	=	474.8000	IN.	YPR	=	.0000	IN.
SECF	=	936.0000	IN.	ZMRP	=	375.0000	IN.
SCALE	=	.0000					Z0

BN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH # .300

ALPHA	BETA	:T	F	QCOMP	M75	M66	P5/P17	P6/P15
.000	8.00000	4104.20569	3956.64301	247.56268	.29194	.29989	.94256	.93931
2.000	8.00000	4098.63533	3952.26993	246.59363	.29166	.29969	.94267	.93958
4.000	8.00000	4100.82227	3954.04211	246.78015	.29097	.29791	.94293	.94026
6.000	8.00000	4104.97936	3957.69616	247.79291	.28903	.29464	.94366	.94153
8.000	8.00000	4106.95511	3959.44058	247.72456	.28935	.29389	.94316	.94182
10.000	8.00000	4103.75303	3955.69021	247.77886	.29396	.29354	.94195	.94195
12.000	8.00000	4102.73383	3955.74426	246.99956	.29452	.29428	.94158	.94157
14.000	8.00000	4103.26404	3956.21628	247.04779	.29356	.29608	.94194	.94098
16.000	8.00000	4107.78955	3960.25348	247.53607	.29302	.29917	.94215	.93979
18.000	8.00000	4109.02155	3961.36682	247.83472	.29090	.30299	.94295	.93831
20.000	8.00000	4107.89282	3963.31406	247.578.0	.28999	.30601	.94329	.93712
22.000	8.00000	4104.02478	3956.63127	247.19354	.28999	.30818	.94309	.93626
24.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
26.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
28.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
30.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
32.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
34.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
36.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
38.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
40.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
42.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
44.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
46.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
48.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
50.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
52.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
54.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
56.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
58.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
60.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
62.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
64.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
66.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
68.000	8.00000	4100.98999	3954.10867	246.88135	.28992	.30508	.94519	.93748
70.000	8.00000	4100.98999	3954.10867	246.8				

BN/L = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH # .500

ALPHA	BETA	PT	P	QCOMP	M75	M66	P5/PT7	P6/PT6
.500	8.00000	254.0	1988.64767	551.77995	5.8873	5.8873	77780	77780
1.000	8.00000	254.1	1989.64696	551.92032	5.8863	5.8863	77900	77900
2.000	8.00000	254.3	1991.17441	552.13834	5.8606	5.8606	79096	79096
4.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
6.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
8.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
10.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
12.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
14.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
16.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
18.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
20.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
22.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
24.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
26.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
28.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
30.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
32.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
34.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
36.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
38.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
40.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
42.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
44.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
46.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
48.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
50.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
52.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
54.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
56.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
58.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
60.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
62.000	8.00000	254.3	1991.62127	552.22542	5.8308	5.8308	79253	79253
64.000	8.00000	254.3	1991.621					

PARAMETRIC DATA

BILTA	8.000	ELEVON	.000
AILRON	.000	BDFLAP	-7.170

P5/P17	9.94256	9.94257	9.94258	9.94259	9.94260	9.94261	9.94262	9.94263	9.94264	9.94265	9.94266	9.94267	9.94268	9.94269	9.94270	9.94271	9.94272	9.94273	9.94274	9.94275	9.94276	9.94277	9.94278	9.94279	9.94280	9.94281	9.94282	9.94283	9.94284	9.94285	9.94286	9.94287	9.94288	9.94289	9.94290	9.94291	9.94292	9.94293	9.94294	9.94295	9.94296	9.94297	9.94298	9.94299	9.94300	9.94301	9.94302	9.94303	9.94304	9.94305	9.94306	9.94307	9.94308	9.94309	9.94310	9.94311	9.94312	9.94313	9.94314	9.94315	9.94316	9.94317	9.94318	9.94319	9.94320	9.94321	9.94322	9.94323	9.94324	9.94325	9.94326	9.94327	9.94328	9.94329	9.94330	9.94331	9.94332	9.94333	9.94334	9.94335	9.94336	9.94337	9.94338	9.94339	9.94340	9.94341	9.94342	9.94343	9.94344	9.94345	9.94346	9.94347	9.94348	9.94349	9.94350	9.94351	9.94352	9.94353	9.94354	9.94355	9.94356	9.94357	9.94358	9.94359	9.94360	9.94361	9.94362	9.94363	9.94364	9.94365	9.94366	9.94367	9.94368	9.94369	9.94370	9.94371	9.94372	9.94373	9.94374	9.94375	9.94376	9.94377	9.94378	9.94379	9.94380	9.94381	9.94382	9.94383	9.94384	9.94385	9.94386	9.94387	9.94388	9.94389	9.94390	9.94391	9.94392	9.94393	9.94394	9.94395	9.94396	9.94397	9.94398	9.94399	9.94400	9.94401	9.94402	9.94403	9.94404	9.94405	9.94406	9.94407	9.94408	9.94409	9.94410	9.94411	9.94412	9.94413	9.94414	9.94415	9.94416	9.94417	9.94418	9.94419	9.94420	9.94421	9.94422	9.94423	9.94424	9.94425	9.94426	9.94427	9.94428	9.94429	9.94430	9.94431	9.94432	9.94433	9.94434	9.94435	9.94436	9.94437	9.94438	9.94439	9.94440	9.94441	9.94442	9.94443	9.94444	9.94445	9.94446	9.94447	9.94448	9.94449	9.94450	9.94451	9.94452	9.94453	9.94454	9.94455	9.94456	9.94457	9.94458	9.94459	9.94460	9.94461	9.94462	9.94463	9.94464	9.94465	9.94466	9.94467	9.94468	9.94469	9.94470	9.94471	9.94472	9.94473	9.94474	9.94475	9.94476	9.94477	9.94478	9.94479	9.94480	9.94481	9.94482	9.94483	9.94484	9.94485	9.94486	9.94487	9.94488	9.94489	9.94490	9.94491	9.94492	9.94493	9.94494	9.94495	9.94496	9.94497	9.94498	9.94499	9.94500	9.94501	9.94502	9.94503	9.94504	9.94505	9.94506	9.94507	9.94508	9.94509	9.94510	9.94511	9.94512	9.94513	9.94514	9.94515	9.94516	9.94517	9.94518	9.94519	9.94520	9.94521	9.94522	9.94523	9.94524	9.94525	9.94526	9.94527	9.94528	9.94529	9.94530	9.94531	9.94532	9.94533	9.94534	9.94535	9.94536	9.94537	9.94538	9.94539	9.94540	9.94541	9.94542	9.94543	9.94544	9.94545	9.94546	9.94547	9.94548	9.94549	9.94550	9.94551	9.94552	9.94553	9.94554	9.94555	9.94556	9.94557	9.94558	9.94559	9.94560	9.94561	9.94562	9.94563	9.94564	9.94565	9.94566	9.94567	9.94568	9.9456
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PSYPT7	P6/PT6
79090	77780
79096	78903
79553	78870
79334	78555
79321	78593
78938	79839
78767	73357
78932	78478
79032	78553
79333	78502
79500	78121
79553	77804
80068	77755
00041	00072

ARC 11-97-87-094 0A161 ORBITER + PROBES.

(GE7X45) (02 AUG 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.6800 IN. X0
LREF = 474.8000 IN. YMRP = .0000 IN. Y0
BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

BETA = -5.000 ELEVON = 15.000
AILRON = .000 BSFLAP = -7.170

PARAMETRIC DATA

MACH	ALPHA	BETA	PT	P	QCOMP	M75	M55	P5/PT7	P6/PT6
300	.000	-5.00000	4083.6916	3837.51010	246.18158	.28945	.28559	.94350	.94117
2.000	2.000	-5.00000	4080.42380	3834.50214	245.92166	.26980	.26666	.94337	.94076
4.000	4.000	-5.00000	4082.97000	3835.85544	246.11456	.26928	.26651	.94356	.94081
6.000	6.000	-5.00000	4080.83282	3834.86475	245.96808	.25093	.24688	.94294	.94067
8.000	8.000	-5.00000	4080.90822	3835.00128	245.90494	.26201	.25600	.94253	.94101
10.000	10.000	-5.00000	4083.33157	3837.10403	246.22754	.29173	.28551	.94264	.94120
12.000	12.000	-5.00000	4083.19510	3836.95032	246.24478	.28834	.28446	.94391	.94006
14.000	14.000	-5.00000	4085.79639	3839.35828	246.43811	.30128	.30128	.94539	.93897
16.000	16.000	-5.00000	4083.73492	3837.47116	246.26376	.28097	.28462	.94655	.93767
18.000	18.000	-5.00000	4082.53638	3835.36559	246.17688	.27560	.28028	.94860	.93622
20.000	20.000	-5.00000	4086.27255	3839.77493	246.49762	.31075	.31075	.95113	.93524
22.000	22.000	-5.00000	4082.56488	3836.49777	246.06711	.26323	.26323	.95297	.93546
24.000	24.000	-5.00000	4082.27554	3836.16763	246.10791	.26546	.26546	.95563	.93811
GRADIENT		.00000	-1.18042	-1.16366	-1.01675	-.00004	.00023	.00002	-.00008

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	QCOMP	M75	M55	P5/PT7	P6/PT6
300	.000	-5.00000	2503.66928	1961.08160	542.58768	.58016	.58298	.79611	.78831
2.000	2.000	-5.00000	2508.03470	1964.87794	543.15677	.57902	.59403	.79680	.78765
4.000	4.000	-5.00000	2504.84750	1961.84412	543.08339	.58076	.58586	.79574	.78654
6.000	6.000	-5.00000	2507.57928	1964.30646	543.27283	.58165	.58381	.79521	.78780
8.000	8.000	-5.00000	2507.23706	1964.02145	543.21561	.58408	.58548	.79373	.79258
10.000	10.000	-5.00000	2515.97717	1971.73871	544.23846	.58367	.58552	.79398	.79225
12.000	12.000	-5.00000	2513.42737	1969.43301	543.99435	.57889	.59155	.79698	.78918
14.000	14.000	-5.00000	2505.08347	1962.44601	543.13745	.57339	.59035	.80020	.78991
16.000	16.000	-5.00000	2503.21774	1960.48369	542.73386	.56564	.58674	.80486	.79211
18.000	18.000	-5.00000	2503.51517	1960.81487	542.70032	.55496	.58545	.81123	.79290
20.000	20.000	-5.00000	2501.38257	1958.86124	542.52133	.54178	.58708	.81980	.79191
22.000	22.000	-5.00000	2502.79318	1960.06981	542.72339	.52608	.58885	.82815	.79083
24.000	24.000	-5.00000	2510.39862	1966.80496	543.59366	.51047	.58517	.83710	.79397
GRADIENT		.00000	.29456	.19063	.10393	.00015	.00072	-.00009	-.00044

(0E7X46) (02 AUG 76)

PARAMETRIC DATA

-2.000 ELEVON = 15.008
 .000 BDFLAP = -7.170

TABULATED DATA - 0A161 (ARC 11-97-87-09H)
 ARC 11-97-87-09H 0A161 ORBITTER + PROBES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
 LREF = 474.8000 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/P17	P6/P16
.300	.000	-2.00000	4089.06894	3842.48010	246.58284	.29033	.29833	.94316	.94012
2.000	.000	-2.00000	4091.17761	3844.27921	246.89841	.28814	.29955	.94361	.93860
4.000	.000	-2.00000	4091.68335	3844.71551	246.96774	.28813	.29953	.94362	.93865
6.000	.000	-2.00000	4089.27725	3842.65396	246.62329	.29038	.29688	.94370	.94067
8.000	.000	-2.00000	4089.24741	3842.63040	246.61700	.29102	.29368	.94318	.94190
10.000	.000	-2.00000	4089.48151	3842.83499	246.64651	.28937	.29622	.94291	.94093
12.000	.000	-2.00000	4089.44775	3842.80380	246.64395	.28902	.29604	.94353	.93931
14.000	.000	-2.00000	4089.15720	3842.55438	246.60281	.28502	.30480	.94515	.93760
16.000	.000	-2.00000	4091.20270	3844.30038	246.90231	.27819	.30742	.94760	.93656
18.000	.000	-2.00000	4090.50607	3843.72888	246.77719	.27408	.31098	.94914	.93519
20.000	.000	-2.00000	4085.35025	3839.14899	246.20126	.27026	.31508	.95051	.93390
22.000	.000	-2.00000	4087.08173	3840.70343	246.37638	.26841	.30910	.95116	.93590
24.000	.000	-2.00000	4092.22760	3845.23996	246.98764	.26304	.30556	.95384	.93730
GRADIENT		.00000	.55365	.55898	.09473	-.00030	.00030	.00011	-.00812

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	PT	P	OCOMP	M75	M66	P5/P17	P6/P16
.600	.000	-2.00000	2497.21130	1955.14626	542.06506	.58161	.59810	.79523	.7817
2.000	.000	-2.00000	2497.06398	1955.15842	541.90466	.58803	.66160	.79498	.78302
4.000	.000	-2.00000	2504.31854	1961.54137	542.77719	.58141	.59917	.79535	.78452
6.000	.000	-2.00000	2502.25877	1959.92384	542.33094	.58243	.59439	.79473	.78744
8.000	.000	-2.00000	2493.75104	1957.72584	542.02420	.58459	.58977	.79342	.79027
10.000	.000	-2.00000	2510.79306	1957.57306	543.22600	.58066	.59021	.79581	.79000
12.000	.000	-2.00000	2510.34400	1967.58032	543.36368	.57919	.59479	.79670	.78729
14.000	.000	-2.00000	2503.96127	1961.27100	542.69028	.57411	.59479	.79977	.78720
16.000	.000	-2.00000	2506.05128	1963.25845	542.80283	.58204	.58753	.80701	.79163
18.000	.000	-2.00000	2500.93402	1958.61502	542.31980	.58184	.58753	.81387	.79118
20.000	.000	-2.00000	2494.98862	1953.29674	541.69189	.54603	.59599	.81651	.78546
22.000	.000	-2.00000	2503.14465	1960.56935	542.57532	.58941	.59641	.82062	.78621
24.000	.000	-2.00000	2509.37143	1966.01462	543.35681	.58812	.59895	.82697	.79077
GRADIENT		.00000	1.77681	1.59880	.17903	-.00005	.00027	.00003	-.00016

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 OF POOR QUALITY

STABILIZED DATA - 0A151 (ARC 11-97-87-094)

ARC 11-97-87-034 OA161 ORBITER + PROBES

(GE7X47) (02 AUG 76)

REFERENCE DATA

SECF	=	2690.0000	50.FT.	YMRP	=	1075.6800	IN.	X0
LEEF	=	474.8000	IN.	YMRP	=	.0000	IN.	Y0
SEEF	=	936.6800	IN.	ZMRP	=	375.0000	IN.	Z0
SCALE	=	.0300						

**BETA
AILRON**

ELEVON	=	15.000
BQFLAP	=	-7.170

EN/1 =	3.91	GRADIENT INTERVAL =	-5.00/	5.00
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MACH = .300 ALPHA

[illegible]

GRADIENT

BN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

BETA	PT	P	QCOMP	M75
.00000	2492	27872	1951	65523
.00000	2535	13579	1987	62505
.00000	2506	12231	1950	55529
.00000	2520	06754	1972	58333
.00000	2525	38132	1977	81729
.00000	2534	93524	1985	46754
.00000	2533	58134	1984	32958
.00000	2522	58533	1974	37488
.00000	2525	19815	1976	72752
.00000	2529	38264	1980	50584
.00000	2526	75348	1978	15569
.00000	2527	80078	1978	98515
.00000	2531	23700	1982	01257
.00000	346090	232275	113914	-
.58211		541.01349		
.57765		547.51376		
.57984		545.56504		
.57919		547.80920		
.58160		548.56403		
.58224		545.51871		
.58277		546.35165		
.58093		548.21045		
.57586		548.47064		
.55618		548.87781		
.55280		548.59781		
.54364		548.81364		
.53469		549.822482		
-.00057		1.13914		

GRADIENT

P5/P17
79493
79563
79630
79670
79674
79685
79692
79695
79698
79701
79703
79705
79707
79709
79711
79713
79715
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(GE7X48) (02 AUG 76)

TABULATED DATA - 0A161 (ARC 11-97-87-094)
ARC 11-97-87-094 0A161 ORBITER + PROBES

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6900 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .300
ALPHA

BETA	PT	P	OCOMP	M75	M66	P5/P17	P6/P16
2.00000	4095.12866	3847.76144	247.35722	.29116	.29622	.94295	.94093
2.00000	4092.81378	3845.77237	247.04141	.28905	.30022	.94365	.93939
2.00000	4094.28510	3847.03000	247.25510	.28882	.30163	.94374	.93883
2.00000	4093.04870	3845.96548	247.07321	.28880	.30085	.94374	.93914
2.00000	4094.33767	3847.13489	247.26379	.28981	.30067	.94336	.93921
2.00000	4094.54346	3847.59677	247.34369	.29162	.29424	.94268	.94169
2.00000	4093.81253	3844.04269	246.76994	.29222	.29727	.94245	.94052
2.00000	4094.13782	3846.97061	247.16721	.29059	.30063	.94307	.93923
2.00000	4094.01318	3845.90274	247.11044	.29028	.30502	.94318	.93751
2.00000	4092.61813	3845.62732	246.99381	.28919	.31159	.94359	.93490
2.00000	4092.55760	3845.53543	247.00217	.28669	.31654	.94453	.93287
2.00000	4093.15781	3846.07544	247.08237	.27963	.31213	.94714	.93469
2.00000	4091.65585	3844.77710	246.87875	.27313	.30460	.94849	.93767
2.00000	4091.21065	3844.18286	246.82778	-.00058	.00135	.00022	-.00052

RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600
ALPHA

BETA	PT	P	OCOMP	M75	M66	P5/P17	P6/P16
2.00000	2523.43391	1975.42574	548.01419	.58358	.59356	.79403	.78795
2.00000	2532.98480	1983.70862	549.27618	.57861	.60224	.79705	.78263
2.00000	2522.34305	1973.95619	548.38587	.57928	.60681	.79664	.77981
2.00000	2522.34359	1973.80801	548.53568	.58061	.60159	.79584	.78302
2.00000	2534.44499	1984.61679	549.82309	.57959	.59872	.79645	.78479
2.00000	2530.59875	1981.16174	549.43701	.58414	.59288	.79370	.78836
2.00000	2528.78778	1979.57022	549.21756	.58417	.59905	.79368	.78520
2.00000	2528.03558	1979.72385	549.31174	.58581	.59366	.79268	.78759
2.00000	2535.91555	1988.57759	550.33907	.58326	.58443	.79423	.79352
2.00000	2537.34454	1987.18785	550.15571	.58704	.59310	.79800	.79068
2.00000	2535.37357	1985.38490	549.99298	.57066	.59853	.80184	.78485
2.00000	2531.03384	1981.46393	549.56992	.56403	.60886	.80582	.77854
2.00000	2525.60913	1976.53356	549.07547	.55103	.59911	.81356	.78455
2.00000	2524.19	1976.36739	549.05317	-.00108	.00331	.00065	-.00023

PARAMETRIC DATA

BETA = 2.000 ELEVON = 15.000
ALFON = .000 EDFLAP = -7.178

(GE7X49) (02 AUG 75)

TABULATED DATA - 0A151 (ARC 11-97-87-094)

ARC 11-97-87-094 0A151 ORBITER + PROBES

PARAMETRIC DATA

BETA = 5.000 ELEVON = 15.000
AILRON = .000 BDFLAP = -7.170

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8000 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0300

RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	M75	M55	P5/PT7	P6/PT6
.300	5.00000	4091.90802	3845.09164	246.81638	.29692	.29968	.94219	.93959
ALPHA	.000	4097.52972	3850.08409	247.48564	.29169	.30195	.94265	.93871
2.000	5.00000	4098.69287	3851.08252	247.61035	.29098	.29966	.94292	.93960
4.000	5.00000	4093.69952	3846.57336	247.12616	.29127	.29814	.94281	.94019
6.000	5.00000	4093.69952	3846.57336	247.12616	.29127	.29814	.94281	.94019
8.000	5.00000	4091.92636	3845.02399	246.90237	.29242	.29666	.94238	.94076
10.000	5.00000	4095.28748	3848.03641	247.25107	.29363	.29498	.94192	.94140
12.000	5.00000	4099.66168	3851.08652	247.57520	.29313	.29498	.94211	.94060
14.000	5.00000	4100.75510	3952.32993	247.73521	.29306	.29950	.94213	.93966
16.000	5.00000	4100.09558	3952.37668	247.72073	.29182	.30490	.94260	.93756
18.000	5.00000	4098.44439	3850.82678	247.61780	.28957	.31121	.94345	.93506
20.000	5.00000	4094.74744	3847.55262	247.19492	.28822	.31550	.94396	.93333
22.000	5.00000	4091.30930	3844.44815	246.86115	.28556	.31225	.94495	.93464
24.000	5.00000	4091.71375	3844.85493	246.84982	.28117	.30534	.94557	.93739
GRADIENT	.00000	1.69621	1.49772	.19849	-.00049	-.00001	.00018	.00000

PR/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	PT	P	OCOMP	M75	M55	P5/PT7	P6/PT6
.600	5.00000	2535.04523	1985.09232	549.95291	.58521	.60002	.79384	.78399
ALPHA	.000	2530.24927	1980.90170	549.34756	.58321	.60598	.79426	.78034
2.000	5.00000	2525.68387	1976.83443	548.84946	.58445	.60579	.79350	.78044
4.000	5.00000	2521.55911	1973.12846	548.43866	.58566	.59566	.79277	.78667
6.000	5.00000	2535.72415	1985.92627	543.79788	.58475	.59045	.79333	.78985
8.000	5.00000	2533.23135	1983.71909	543.56177	.59045	.59392	.78985	.78773
10.000	5.00000	2535.35916	1985.55157	543.80759	.58843	.59821	.79109	.78510
12.000	5.00000	2530.75212	1981.33500	543.36413	.58939	.59610	.79050	.78639
14.000	5.00000	2530.60117	1981.29556	543.30560	.58867	.59130	.79094	.78933
16.000	5.00000	2538.38977	1988.30652	550.06325	.57907	.59121	.79677	.78939
18.000	5.00000	2537.74243	1987.64873	550.09372	.57529	.59979	.79905	.78413
20.000	5.00000	2535.20123	1985.41608	549.76516	.57344	.61055	.80017	.77750
22.000	5.00000	2534.79544	1984.94473	549.85071	.56402	.59463	.80582	.78730
24.000	.00000	-2.24033	-2.06445	-.21586	-.00019	.00144	.00012	-.00069
GRADIENT								